

# GENERAL CATALOGUE



improve  
performance

# About us

Maychem's roots go back to 1975, when the company began offering sealing services and marketing just two products for sealing leaks in heating installations.

During its first two years, advertising in local newspapers, the company offered this sealing service for heating installations to various condominiums and private homes. In later years, thanks to word of mouth on behalf of satisfied customers, the company transformed itself into a manufacturer of sealants for various sectors, such as plumbing and construction.

Through continuous investments in researching innovative solutions, but above all through the training of its own personnel, in the 1990's the company began producing for large and multinational companies on a European wide scale.

In recent years, Maychem has become particularly aware of the need to satisfy specific market demands for various sectors and has continued to improve its internal processes in order to pursue and develop the company's main objectives: customer satisfaction and exceptional product quality.

With its new sales policy, today Maychem poses itself directly on the national market as an innovative company, boasting over 35 years of experience, a staff of highly qualified personnel, two research and development laboratories and an intricate sales network in continuous expansion, all aimed at guaranteeing customer satisfaction and constant improvement in product quality.

## Our product range:

- Sealants for heating and tap water installations
- Sealants for solar heating installations
- Sealants for swimming pools
- Cleaners for heating installations
- Protective agents (inhibitors) for heating systems with radiators or floor heating
- High efficiency inhibited antifreeze agents for solar, geothermal and heating systems
- Cleaners and acids for use against calcium deposits and rust in heating installations
- Noise reducer additive
- Cleaner for solar and photovoltaic panels
- Special cleaners for boiler



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- pH stripes
- Molybdenum water treatment test kit
- Test case "Simple test" and "Profi test"
- M20 Washing pump for heat exchangers
- Gastop set PROFESSIONAL
- Molch set
- Bacteria water test kit
- Hardness water test kit
- Iron water test kit
- Optical refractometer for frost protection



# Technical information

## Water content list:

Thumb	mm	Content in liters Approx / mt.
1/8"	3,175 mm	0,01 L
1/4"	6,350 mm	0,02 L
3/8"	9,525 mm	0,05 L
1/2"	12,700 mm	0,09 L
5/8"	15,875 mm	0,15 L
3/4"	19,050 mm	0,22 L
1"	25,400 mm	0,31 L
1 1/4"	31,750 mm	0,90 L
1 1/2"	38,100 mm	1,40 L
2"	50,800 mm	2,00 L.
2 1/2"	63,500 mm	3,40 L
3 1/8"	79,380 mm	4,40 L
3 5/8"	92,080 mm	5,94 L

## Water content list:

### Traditional radiator system and copper or multilayer pipes:

Apartment 100 sqm	appr. 90 - 100 lt
Single house 200 sqm	appr. 180 - 200 lt.
Single house 500 sqm	appr. 380 - 400 lt.

### Floor systems

Apartment 100 sqm	appr. 100 – 140 lt.
Single house 200 sqm	appr. 200 - 280 lt.
Single house 500 sqm	appr. 500 - 600 lt.

### Traditional layout

Apartment 100 sqm	appr. 140 lt.
Single house 200 sqm	appr. 280 lt.
Single house 500 sqm	appr. 580 lt.

## Water hardness:

Hardness is generally expressed in degrees French (° f, not to be confused with ° F, which are degrees Fahrenheit), where one degree represents 10 mg of calcium carbonate (CaCO<sub>3</sub>) per liter of water (1st f = 10 mg / lt = 10 ppm - parts per million). Alternatively, the result can be expressed as milligrams of calcium carbonate per liter of water. Grains is a corresponding unit of measurement to 64.8 mg of calcium carbonate.

Currently, the MEC grade is also used, which corresponds to 1 g of CaCO<sub>3</sub> in 100 liters and is therefore equal to the degree French.

Generally, water is classified according to the hardness as follows

- up to 7 ° f = very sweet
- 7 ° f to 14 ° f = sweet
- from 14 ° f to 22 ° f = medium hard
- from 22 ° f to 32 ° f = fairly hard
- from 32 ° f to 54 ° f = hard
- over 54 ° f = very hard

Other units of measurement of hardness are degrees Germans (° T or ° d) widely used by aquarists with 1 ° T = quantity of salts equivalent to 10 mg / l of oxide calcium CaO (1 ° T = 1.79 ° f), the English (or Clark's) degrees ° I where 1 ° I = 1 g of calcium carbonate in 70 liters of water (1 ° I = 1.43 ° f), degrees ° USA where 1 ° USA = 1 mg / lt of calcium carbonate (1st USA = 1.71 ° f), (also grains / galls) the meq / lt and the ppm of carbonate or calcium oxide.

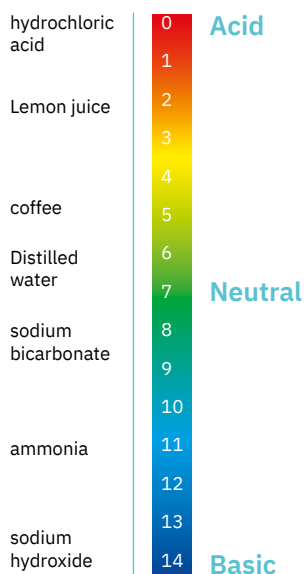
## PH value

The pH is a scale of measurement of the acidity of one water solution:

Solution	pH value
Hydrochloric acid pH substance, 10 M	<1
Acid battery	1,5
Gastric juice	1,5 - 2
Lemon juice	2,4
Coca Cola	2,5
Vinegar	2,9
Orange or apple juice	3,5
Beer	4,5
Acid rain	<5,0
Coffee	5,0
Tea	5,5
Deionized water at 25 ° C	5,0 - 6,0
Milk	6,5
Pure water at 25 ° C	7,0
Normal saliva	6,5 – 7,4
Blood	7,34 – 7,45
Sea water	7,7 – 8,3
Hand soap	9,0 – 10,0
Domestic ammonia	11,5
Varechina/bleach	12,5
Lye	13,5
Sodium hydroxide	14,0



## pH scale



## Guide on the use of self-sealing for heating

### Guide on the application of self-sealing products

#### NECESSARY ASSESSMENT TO BE PERFORMED:

if the loss in 24 hours exceeds 70% of the content total of the system to be sealed, the sealing will not be possible.

#### 1. Check the daily loss (in 24h)

Identify how many liters the system loses in 24 hours. To do this calculation, mount a water liter counter and measure how many liters are loaded in the space of 10 min.

An example of the result: 1.5 liters in 10 min.  $\times 6 = 9$  liters in 1 hour  $\times 24 = 216$  liters of total loss per day.

**2. Check the contents of the system** to identify the contents of the heating system: the system can be devastated and recharged by using a water liter counter.

#### 3. Verification of the dirt presence

If the system has dirty water before continuing with sealing it is recommended to clean the system with an external pump with the HR Plus cleaner. Cleaner is effective for eliminating dirt, sediments and deposits of slush. Concentration 1 liter per 100 liters of system content, quick washing in 3 hours.

**ATTENTION** use only with external pump.

### 4. Product selection

For losses that are slightly below the value of the product, the product with the higher value is selected. Example: with a loss of 25 liters the Mayline 35 product is selected, or with a leak of 110 liters, the Mayline 150 product is selected.

### 5. Insertion of the self-sealing in the system and sealing

Fill the self-sealing liquid using a pump loading systems. Concentration to use: 1 liter of sealant with 100lt of water, increasing up to a maximum of 2 liters. For a concentration check of the product in the system, take a sample on the point farther from the system and check the pH value, if between 10.5 and 11, the concentration is perfect.

#### ATTENTION:

Do not over or under dose the product!

#### IMPORTANT NOTE:

After loading, turn on the boiler and bleed the pump well!

Put the boiler under pressure (1.5 bar more than normal pressure and set the maximum temperature) for a minimum of 7 hours. Bleed the radiators and the pump well! After 7 hours of operation at maximum pressure and maximum temperature, set the system to normal operating pressure and temperature.

After approx. 5 days empty the system and load a protective liquid as Mayline K32 for systems with radiators or Mayline SBA for radiant panel systems (floor) or insert a Mayline FS, FSP15 or antifreeze XS according to the type of system.

#### IMPORTANT NOTICE:

Maychem sealants can remain in the system for a maximum of 30 days, but they still must be removed after sealing.

# Technical information

The most important points about water treatment for winter and/or summer heating and cooling systems:

## Washing of newly built systems

To wash a new system, a specific chemical conditioner such as Mayline Novorisan should be used at a 1% dilution using the system's circulation system at a cold temperature or not exceeding 65°C for approx. 4 hours, or with an external auxiliary washing pump with the same dosage and timing. For a long-term washing process lasting up to 90 days, Mayline CPL can also be used at a 1% dilution using the system's circulation system at a cold temperature or not exceeding 70°C.

**Once the cleaning has been completed, the system must be rinsed and prepared for operation after conditioning with inhibitors. It is also necessary to check existing systems for hydraulic leaks.**

Before carrying out the restoration (washing) work, it is necessary to check the system for leaks and, if necessary, to carry out a self-sealing or repair operation.

## Install a dirt separator filter

It is recommended to install a mechanical filtration system such as Mayline EasyDefmag, Defmag2 or MaxiDefmag before carrying out the restoration (washing) work.

## Restoration (washing) with chemical conditioners of existing systems.

For systems with sludge problems in the radiators or contaminated by microbiological growth in the radiant pipe or panel, cleaning is required.

## Example: Restoration of an old system in good condition

To clean a radiator system with problems of sludge, scale and sediment of various types, it is necessary to clean with Mayline HR, a cleaner with a dirt separating and descaling effect, at a dilution of 1% using the system's circulation system for approx. 48–96 hours cold (> 15°C) or not exceeding an operating (delivery) temperature of 50°C.

or  
Mayline HRplus, a cleaner with a dirt separating and descaling effect, at 1% dilution with an external auxiliary washing pump for approx. 3 hours.  
**PLEASE NOTE: FOR VERY DIRTY SYSTEMS, EXTEND THE TIME!**

## Example: Restoration of an old system, with piping at risk of breaking

Mayline CP, pH-neutral cleaner with a dirt separating and descaling effect, diluted to 1% using the boiler pump for approx. 8–10 days not exceeding an operating (delivery) temperature of 70°C.

## Example: Restoration of an old system in precarious conditions

Mayline CPL, pH-neutral detergent, with a 1% dilution using the boiler pump for approx. 1 to 3 months not exceeding an operating (delivery) temperature of 70°C.

## Example: Restoration of a low-temperature radiant system

Mayline SB, a biodegradable cleaning liquid based on organic compounds with a dirt separating effect, with a 1% dilution using the boiler pump for approx. 4 hours not exceeding 40°C. or with an external washing pump for approx. 5 hours.

## WARNING!

**Once the cleaning has been completed, the system must be rinsed and prepared for operation after conditioning with inhibitors.**

## Chemical conditioning of the water in the summer and/or winter air conditioning circuit.

To prevent sludge, scale and sediment problems of various types, use Mayline K32, a LONG-TERM molybdenum-based corrosion inhibitor, **diluted to 1% to achieve a molybdenum value of 250 mg/L**. To prevent microbiological growth,

Mayline SBA is used, a corrosion inhibitor with a unique combination of inhibitors for radiant (e.g., underfloor) or mixed systems against corrosion and scaling, with the addition of a non-foaming, chlorine-free bio-dispersant.

**With a 1% dosage, a molybdenum value of 100 mg/L is obtained.** The product is to be introduced with a filling pump into the system, circulate for at least 2 hours to dilute and diffuse the product properly.

**WARNING! Always make sure that the system filling cock is closed to avoid automatic refilling, which would dilute the inhibitor with mains water!**

## Annual checks are recommended.

For Mayline K32 or Mayline SBA, an inhibitor check should be carried out every 12 months with the molybdenum test kit, which should show a minimum of 140mg/L for Mayline K32 and a minimum of 80mg/L for Mayline SBA; otherwise, the product must be topped up. To ensure that the system functions properly, we recommend replacing the water in the treated system every 10 years and repeating the treatment in the system.



# Certifications

## The key points about treatment for solar thermal systems:

### **Washing of newly built systems.**

To wash a new solar thermal system, use a specific chemical conditioner such as Mayline Novorisan at a 1% dilution using the system's circulation system at a cold temperature or not exceeding 65°C for approx. 4 hours, or with an external auxiliary washing pump with the same dosage and timing. **Once the cleaning has been completed, the system must be rinsed and prepared for operation after conditioning with inhibitors.**

### **Restoration (washing) with chemical conditioners of existing systems.**

Careful restoration should be carried out to remove deposits of degraded glycol and to restore the correct operating conditions. In this case, restoration is carried out using a specific chemical conditioner such as Mayline SOLAR with an external auxiliary washing pump at a dilution of 10 to 20% and allowing the mixture to circulate for 60 to 240 minutes (extend the time for very dirty systems and replace the cleaning solution if necessary).

**Once the restoration has been completed, the washing pump can also be used to rinse the system and to fill the system with new heat transfer fluid.**

### **Inserting the heat transfer fluid (antifreeze):**

**Mayline FS, pure, non-toxic**, high-performance propylene glycol-based antifreeze with corrosion inhibitors.

**Mayline FSP15, ready-to-use non-toxic heat transfer fluid with frost protection to -15°C**, based on high-performance propylene glycol with corrosion inhibitors.

**Mayline FSP25, non-toxic, ready-to-use heat transfer fluid with frost protection to -25°C**, based on high-performance propylene glycol with corrosion inhibitors.

**The use of ethylene glycol-based antifreeze or heat transfer fluids is highly discouraged due to its toxicity.**



is certified by:



# Product overview

	Cleaner for heating systems	Dosage	Usage time	Usage temperature
<b>Mayline HR</b>	Cleaner for heating installations with radiators	0,5-1 %	2-4 days with boiler pump	room temperature or up to MAX. 50°C.
<b>Mayline HR plus</b>	Quick-acting cleaner for heating installations with radiators	1 %	3-4 hours* with flushing pump	room temperature or up to MAX. 50°C.
<b>Mayline CP</b>	pH neutral cleaner for heating systems with radiators	1 %	8-10 days with boiler pump	room temperature or up to MAX. 70°C.
<b>Mayline CPL</b>	Long period pH neutral cleaner for heating systems with radiators	1 %	30-90 days with boiler pump	room temperature or up to MAX. 70°C.
<b>Mayline SB</b>	Cleaner for floor heating installations	1 %	5 hours with flushing pump 4 hours with boiler pump	room temperature or up to MAX. 40°C.

\* Extension of the application time necessary for heavily silted systems

	Descalers, acids + neutralizer	Dosage	Usage time	Usage temperature
<b>Mayline S26</b>	Descaler to remove encrustations in tap water installations and heat exchangers	2-25 %	min. 30 minutes with flushing pump	room temperature or up to MAX. 45°C.
<b>Mayline R13</b>	Descaler to remove encrustations in heating installations and heat exchangers	1-50 %	min. 30 minutes with flushing pump	room temperature or up to MAX. 45°C.
<b>Mayline PULIBOILER</b>	Highly concentrated acid to remove encrustations in heat exchangers	1-10 %	min. 30 minutes with flushing pump	room temperature or up to MAX. 45°C.
<b>Mayline NEUTRO</b>	Neutralizing liquid to neutralize the circuits treated with descalers or acids	5 %	about 20 minutes	-
<b>Mayline DISOFORTE</b>	Highly efficient cleaner for shower or sink drains, removes blockages of hair, soap scum, and others	pure	about 5 minutes	-

	Cleaners for specific applications	Dosage	Usage time	Usage temperature
<b>Mayline NOROVISAN</b>	Cleaner for new heating installations (in high or low temperature) or thermic solar systems	1 %	2-4 hours with flushing pump 1-4 hours with boiler pump	room temperature or up to MAX. 65°C.
<b>Mayline SOLAR</b>	Concentrated cleaner for removing degraded heat transfer fluids, sludge and blockages	10-20 %	from 60 to 240 min.* with flushing pump	room temperature or up to MAX. 65°C.

\* Extension of the application time necessary for heavily silted systems

	Protectives for heating systems	Dosage	Dosage check every	Molibdenum value
<b>Mayline K32</b>	Protective liquid with molybdenum based corrosion inhibitors for heating circuits with radiators	0,5-1%	12 months	> 140mg/L
<b>Mayline SBA</b>	Protective liquid with molybdenum based corrosion inhibitors and bio-blocker for floor heating systems	1 %	12 months	> 80mg/L
<b>Mayline PROTEC</b>	Protective liquid with fosfate-molybdenum corrosion inhibitors for heating circuits with radiators	1 %	12 months	> 140mg/L
<b>Mayline AR</b>	Protective additive to reduce the noise in heating circuits with aluminum radiators	1 %	12 months	-

	Self-sealing liquids
<b>Mayline 5</b>	Self-sealing liquid for heating installations with daily leaks up to 5 litres
<b>Mayline 15</b>	Self-sealing liquid for heating installations with daily leaks up to 15 litres
<b>Mayline 15L (elastic)</b>	Self-sealing liquid for heating installations with daily leaks up to 15 litres
<b>Mayline 35</b>	Self-sealing liquid for heating installations with daily leaks up to 35 litres
<b>Mayline 35L (elastic)</b>	Self-sealing liquid for heating installations with daily leaks up to 35 litres
<b>Mayline 150</b>	Self-sealing liquid for heating installations with daily leaks up to 150 litres
<b>Mayline 250</b>	Self-sealing liquid for heating installations with daily leaks up to 250 litres
<b>Mayline 400</b>	Self-sealing liquid for heating inst. with daily leaks up to 400 litres (MAX. for wall mounted boiler)
<b>Mayline 1000</b>	Self-sealing liquid for heating installations with daily leaks up to 1000 litres
<b>Mayline 2500</b>	Self-sealing liquid for heating installations with daily leaks up to 2500 litres
<b>Mayline F</b>	Self-sealing liquid for solar heating systems with daily leaks up to 15 litres
<b>Mayline PROTSAN</b>	Self-sealing liquid for heating installations with daily leaks up to 10 litres
<b>Mayline AP20</b>	Self-sealing liquid for tap water installations with daily leaks up to 20 litres
<b>Mayline POOL</b>	Self-sealing liquid for swimming pools for daily leaks up to about 24cm of level

	Special sealants
<b>Mayline GASTOP</b>	Self-sealing liquid for repair leaks in screw connections in natural gas conduits
<b>Mayline NASTRO FUSION</b>	Self-amalgamating silicone tape for quick repairing and sealing on pipes

	Antifreeze agents
<b>Mayline FS</b>	Inhibited NON-TOXIC propylene glycol based antifreeze for solar- and geothermal systems
<b>Mayline FSR</b>	Inhibited diethylene glycol based antifreeze for cooling and heating systems
<b>Mayline XS</b>	Inhibited ethylene glycol based antifreeze for cooling and heating systems
<b>Mayline FSP15</b>	Inhibited NON-TOXIC ready-to-use propylene glycol based heat transfer fluid at -15°C.
<b>Mayline FSP25</b>	Inhibited NON-TOXIC ready-to-use propylene glycol based heat transfer fluid at -25°C.









	Maintenance
<b>Mayline R99</b>	Sanitizing cleaner for air conditioning, finned coils, fan coils and washable filters
<b>Mayline CALTEC PLUS</b>	Cleaner to remove residues of combustion on the heat exchanger in condensing boilers
<b>Mayline DETERDOL</b>	Detergent for cleaning and degreasing the surfaces after maintenance

	Special Cleaner
<b>Mayline PVS</b>	High concentrated special cleaner for surfaces of photovoltaic- and thermal solar panels, dilution: 1% up to max. 2%

# Information

Problems in heating systems, possible causes, possible solutions and prevention

! identified problem	🔍 possible cause	Solution approach	Prevention
<p>The heating system has an increased consumption with a lower heating output.</p>	<p>Sludge deposits in the heating system prevent optimal heat exchange.</p>	 <p>Mayline HR</p>	 <p>Mayline K32</p>
<p>The newly installed boiler no longer starts / has circulation problems.</p>	<p>Sludge deposits in the system have clogged the heat exchanger / another component.</p>	 <p>Mayline HR Plus</p>	 <p>Mayline K32</p>
<p>The vented radiators are only lukewarm at full heating output.</p>	<p>Sludge deposits in the radiators prevent optimal heat exchange.</p>	 <p>Mayline HR</p>	 <p>Mayline K32</p>
<p>The heating system must be topped up with water regularly</p>	<p>There is a loss of water due to leaks in the heating system.</p>	 <p>Mayline 5-15-35-150....</p>	 <p>Mayline K32</p>

<p><b>! identified problem</b></p> <p>The vented underfloor heating / surface heating is no longer warm at full heating output.</p>	<p><b>Q possible cause</b></p> <p>A growth of microorganisms in the heating water has silted up and clogged the system.</p>	<p><b>Solution approach</b></p>  <p>Mayline SB</p>	<p><b>Prevention</b></p>  <p>Mayline SBA</p>
<p><b>! identified problem</b></p> <p>Circulation problems that occur immediately after commissioning a new heating system.</p>	<p><b>Q possible cause</b></p> <p>Processing residues from new system components (radiators, distributors, etc.) have partially caused a blockage.</p>	<p><b>Solution approach</b></p>  <p>Mayline NOVORISAN or Mayline CPL</p>	<p><b>Prevention</b></p>  <p>Mayline K32</p>
<p><b>! identified problem</b></p> <p>The boiler rattles or makes noises.</p>	<p><b>Q possible cause</b></p> <p>Deposits and foaming heating water reduce the contact between the water and the heat exchanger.</p>	<p><b>Solution approach</b></p>  <p>Mayline HR Plus</p>	<p><b>Prevention</b></p>  <p>Mayline AR</p>
<p><b>! identified problem</b></p> <p>Little water or rusty water comes out of taps in the drinking water pipe.</p>	<p><b>Q possible cause</b></p> <p>Limestone and / or rust deposits in the system and in the pipes.</p>	<p><b>Solution approach</b></p>  <p>Mayline S26</p>	<p><b>Prevention</b></p>  <p>Mayline NEUTRO</p>

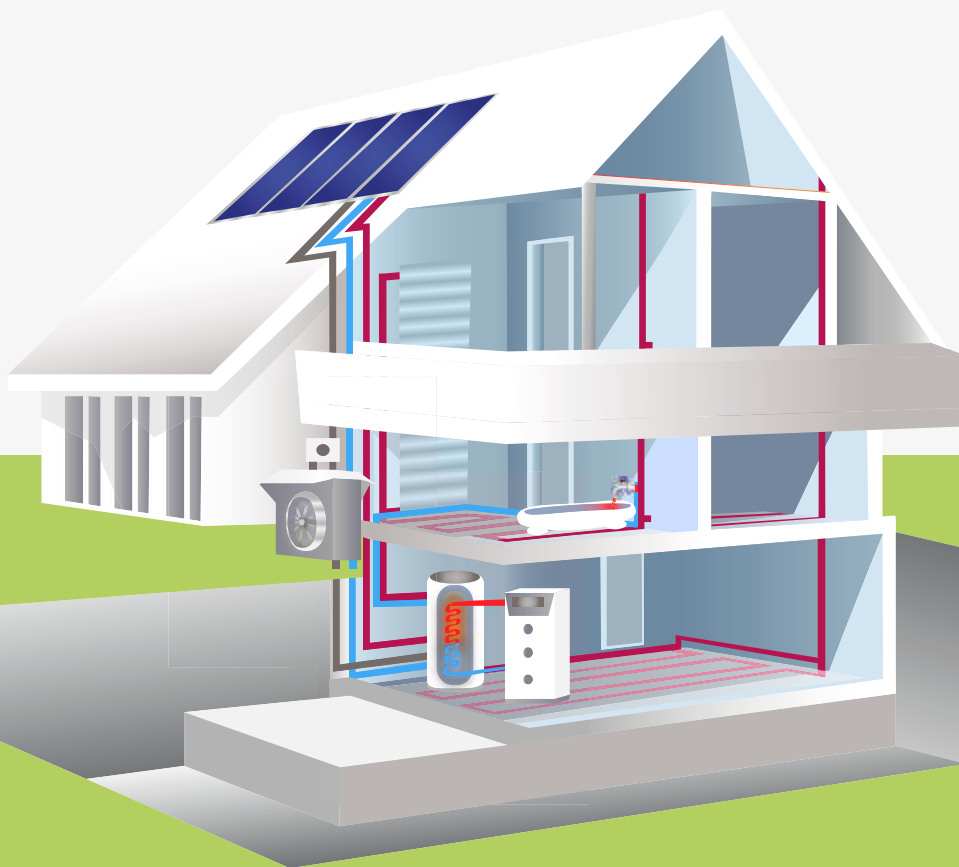
# Symboles legend

	Self-sealing liquid for heating installations with radiators		Cleaner for heating installations with radiators
	Self-sealing liquid for floor heating systems		Cleaner for floor heating installations
	Self-sealing liquid for thermal solar systems		Cleaner for surfaces of photovoltaic- and thermal solar panels
	Self-sealing liquid for drinking water and tap water installations		Cleaner for removing degraded heat transfer fluids and antifreeze agents
	Self-sealing liquid for swimming pools		Descaler for tap water installations and heat exchangers
	Sealing tape for visible leaks		Descaler for removing encrustations in heating installations and heat exchangers
	Self-sealing liquid for screw connections in natural gas conduits		Concentrated acid for removing encrustations in heat exchangers
	Inhibited antifreeze agents or inhibited heat transfer fluid		Neutralizing liquid for circuits treated with descalers or acids
	Inhibited antifreeze agent for heating systems		Drain cleaner
	Inhibited heat transfer fluid for solar thermal installations		Protective liquid with corrosion inhibitors for heating circuits with radiators
	Inhibited heat transfer fluid for geothermal installations		Protective liquid with corrosion inhibitors and bio oxidant for floor heating systems
	Sanitizing cleaner for air conditioning		Protective additive to noise reduction in heating circuits
	Cleaning and maintenance		Possibility of product recovery for reuse



# Mayline Sealants

A solution for every occasion



## Elastic self-sealing liquid for heating installations

with leakage up to 15l/day	<b>Mayline 15L</b>
with leakage up to 35l/day	<b>Mayline 35L</b>

## Self-sealing liquid for heating systems

with leakage up to 5 L/daily	<b>Mayline 5</b>
with leakage up to 15 L/daily	<b>Mayline 15</b>
with leakage up to 35 L/daily	<b>Mayline 35</b>
with leakage up to 150 L/daily	<b>Mayline 150</b>
with leakage up to 250 L/daily	<b>Mayline 250</b>
with leakage up to 400 L/daily	<b>Mayline 400</b>
with leakage up to 1000 L/daily	<b>Mayline 1000</b>
with leakage up to 2500L/daily	<b>Mayline 2500</b>
Sealing tape for visible leaks	<b>Mayline Nastro Fusion</b>

## Self-sealing liquid for solar heating systems

with leakage up to 15l/day	<b>Mayline F</b>
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## Self-sealing liquid for tap water installations

with leakage up to 20l/day	<b>Mayline AP20</b>
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## Self-sealing liquid for leaks in screw connections in natural gas conduits.

with leakage up to 5L/h *	<b>Mayline GASTOP</b>
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*\* or the regulations applicable in the customer's country of reference*

## Elastic self-sealing and protective (inhibitor) liquid for heating installations

with leakage up to 10l/day	<b>Mayline PROTSAN</b>
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## Self-sealing liquid for swimming pools

for leaks up to aprox. 24 cm of level per day	<b>Mayline POOL</b>
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# Mayline 5

Self-sealing liquid

## Self-sealing liquid for heating installations with daily leakage of up to 5 litres

Mayline 5 seals leaks of up to 5 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 5 only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product can even be used in open expansion tank systems.



code	package
5/MY5	5 l canister
1/MY5	1 l (pack of 12 bottles)
2/MY5	1 l (pack of 2 bottles)



UFI: 1500-X0YM-D00S-YYR

### Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the Re-circulation pumps again. Use the pH strips on the container to check the pH value at the system's highest or most distance point. The pH value must be between 10.5 and 11. The system must remain in function for at least 7 hours at maximum temperature. After the sealing process has been completed, the Mayline 5 must be removed from the system. The product may remain inside the system for a maximum of 30 days. If necessary, drain the system's water to eliminate any eventual residues.

### Important note

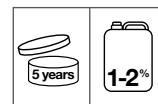
Shake the container well before use. Mayline 5 can NOT be mixed with glycols, antifreezes or other chemical products. The self-sealing liquid may remain inside the system for a maximum of 30 days. Protect the product from frost.

### Mixing proportions

1-2% (1-2 litres of Mayline 5 for every 100 litres of water). The dose is sufficient once a pH value of 10.5 to 11 has been obtained. ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.

**Check** After inserting the product, check if the pH is between 10.5-11 to verify the correct dosage.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline 15

Self-sealing liquid

Self-sealing liquid for heating installations with daily leakage of up to 15 litres

Mayline 15 seals leaks of up to 15 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 15 only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product can even be used in open expansion tank systems.



**Mayline 15**  
Liquido autosigillante

Liquido autosigillante per impianti di riscaldamento con perdita giornaliera fino a 15 litri

**ATTENZIONE**  
Contiene Sodio Nitrito  
Indicatore di pericolo: H319 Provoca gravi ustioni e irritazioni cutanee. H335 Può irritare le vie respiratorie.

**UF1: 1500-XOYM-D00S-YYR**

**Consigli di prodotto:**  
P201 Evitare di respirare la polvere e i vapori.  
P202 Evitare di respirare i fumi (aerosol).  
P203 Contiene gas pressurizzati e proteggersi il viso.  
P223 In caso di incendio, contenere con CO2.  
P231/232 Tenere l'impianto ben chiuso e in luogo ben ventilato.

**Maychem**  
Via Negrelli, 15  
39100 Bolzano (BZ)  
Tel: 0471/052852 - Fax: 0471/196839  
E-Mail: IT0546650217  
info@maychem.it - www.maychem.it

Anno di produzione: 2021

5 l   
50 l

code	package
5/MY15	5 l canister
1/MY15	1 l (pack of 12 bottles)
2/MY15	1 l (pack of 2 bottles)



UF1: 1500-XOYM-D00S-YYR

## Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again. Use the pH strips on the container to check the pH value at the system's highest or most distance point. The pH value must be between 10.5 and 11. The system must remain in function for at least 7 hours at maximum temperature. After the sealing process has been completed, the Mayline 15 must be removed from the system. The product may remain inside the system for a maximum of 30 days. If necessary, drain the system's water to eliminate any eventual residues.

## Important note

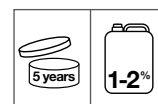
Shake the container well before use. Mayline 15 can NOT be mixed with glycols, antifreezes or other chemical products. The self-sealing liquid may remain inside the system for a maximum of 30 days. Protect the product from frost.

## Mixing proportions

1-2% (1-2 LITRES OF MAYLINE 5 FOR EVERY 100 LITRES OF WATER). THE DOSE IS SUFFICIENT ONCE A PH VALUE OF 10.5 TO 11 HAS BEEN OBTAINED. ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.

**Check** After inserting the product, check if the pH is between 10.5-11 to verify the correct dosage.



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline 15L

Elastic self-sealing liquid

Elastic self-sealing liquid for heating installations with daily leakage of up to 15 litres

Mayline 15L seals leaks of up to 15 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 15L only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product provides the seal with a certain elasticity. The product can even be used in open expansion tank systems.



code	package
5/MY15L	5 l canister
1/MY15L	1 l (pack of 12 bottles)
2/MY15L	1 l (pack of 2 bottles)



UFI: G300-F097-3009-ANDP

## Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again. The system must remain in function for at least 7 hours at maximum temperature. The Mayline 15L may be left inside the system, but if a protective agent with inhibitors is used, than the self sealing liquid solution must be removed. If necessary, drain the system's water to eliminate any eventual residues.

## Important note

Shake the container well before use. Mayline 15L can be mixed with glycols and antifreezes but NOT with other chemical products. The self-sealing liquid may be left inside the system, but if a protective agent with inhibitors is used, than the self sealing liquid solution must be removed.

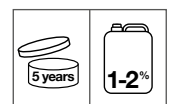
Protect the product from frost.

## Mixing proportions

1-2% (1-2 litres of Mayline 15L for every 100 litres of water).

ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline 35

Self-sealing liquid

Self-sealing liquid for heating installations with daily leakage of up to 35 litres

Mayline 35 seals leaks of up to 35 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 35 only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product can even be used in open expansion tank systems.



**Mayline 35** Liquido autosigillante  
Liquido autosigillante per impianti di riscaldamento con perdita giornaliera fino a 35 litri

**ATTENZIONE:**  
Contiene Sodio Silicato  
Indicazione di pericolo: H229 Frase di rischio: R202  
H229 Frase di rischio: R202  
H229 Frase di rischio: R202

**UFI: 1500-XOYM-D00S-YYR**

**Consigne di prudenza:**  
P211 Eviter di respirare la polvere e i vapori.  
P241 Evitare l'entrata in contatto con gli occhi.  
P261 Indossare guanti protettivi e proteggere il viso.  
P273 In caso di inquinamento, consultare un CESTO  
ANTIPOLLUCIOMI.

**AVVERTENZE:**  
P201-202 Tenere il recipiente ben chiuso e in luogo ben ventilato.

code	package
5/MY35	5 l canister
1/MY35	1 l (pack of 12 bottles)
2/MY35	1 l (pack of 2 bottles)



UFI: 1500-XOYM-D00S-YYR

## Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again. Use the pH strips on the container to check the pH value at the system's highest or most distance point. The pH value must be between 10.5 and 11. The system must remain in function for at least 7 hours at maximum temperature. After the sealing process has been completed, the Mayline 35 must be removed from the system. The product may remain inside the system for a maximum of 30 days. If necessary, drain the system's water to eliminate any eventual residues.

## Important note

Shake the container well before use. Mayline 35 can NOT be mixed with glycols, antifreezes or other chemical products. The self-sealing liquid may remain inside the system for a maximum of 30 days. Protect the product from frost.

## Mixing proportions

1-2% (1-2 litres of Mayline 35 for every 100 litres of water). The dose is sufficient once a pH value of 10.5 to 11 has been obtained. ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.

**Check** After inserting the product, check if the pH is between 10.5-11 to verify the correct dosage.



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline 35L

Elastic self-sealing liquid

## Elastic self-sealing liquid for heating installations with daily leakage of up to 35 litres

Mayline 35L seals leaks of up to 35 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 35L only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product provides the seal with a certain elasticity. The product can even be used in open expansion tank systems.



### Mayline 35L

Liquido autosigillante elastico  
Liquido autosigillante elastico per impianti di riscaldamento  
con perdita giornaliera fino a 35 litri

**Indicazioni d'uso:** Riparare l'impianto di riscaldamento da sigillare con uno dei liquidi pulitori Mayline 35L (Rifill, CF o 5L) come previsto dalla norma UNI EN 15219. Quantificare la perdita giornaliera. Quantificare il contenuto dell'impianto. Dopo l'installazione del liquido, attendere la fine di 24 ore. Assicurarsi di ripristinare il livello di tutti le pompe, regolando la temperatura e pressione massima della caldaia. Ripara completamente tutte le valvole dei radiatori e le valvole miscelatrici. Sblocca bene le pompe di ricircolo e lasciarle in funzione. Distribuire la quantità necessaria di liquido autosigillante facendo una portata di circolazione. Chiudere nuovamente le pompe di ricircolo. L'impianto deve rimanere in funzione per almeno 7 ore con la massima temperatura. Mayline 35L deve essere tolto dall'impianto dopo la sigillatura. L'autosigillante può rimanere nell'impianto per max. 30 giorni. Non è consigliabile aggiungerne di nuovo prima dell'uso. Mayline 35L può essere miscelato con glicole antigelo alla NGN con altri prodotti chimici. Proteggere il prodotto dal gelo. Non di toccare con la pelle. Evitare il contatto con gli occhi. Evitare il contatto con il metallo. Rimuovere immediatamente con acqua gli oggetti come quantaltri, pannelli, lenti, ecc.

#### ATTENZIONE

Contiene: Sodio Nitrito  
Classificazione di pericolo: H229 Provoca gravi  
irritazioni oculari. H312 Provoca irritazione cutanea.  
H335 Può irritare le vie respiratorie.



#### UEF: G300-F097-3009-ANDP

**Consigli di protezione:**  
P201 Evitare di respirare la nebbia e i vapori.  
P202 Leggere attentamente le etichette dei contenitori.  
P223 Evitare di mettere a terra il prodotto e proteggerlo con ANTISTATICO o un metallo.  
P232 In caso di rottura, contattare un CENTRO ANTIVULSIVI o un medico.  
P233 Tenere il recipiente ben chiuso e in luogo ben ventilato.



MAYCHEM s.r.l.  
Via Negrelli, 15  
39100 Bolzano (BZ)

Tel.: 0471/952852 • Fax: 0471/968339  
P.IVA: 07036480227  
info@maychem.it • www.maychem.it

Anno di  
produzione:  
2021

code	package
5/MY35L	5 l canister
1/MY35L	1 l (pack of 12 bottles)
2/MY35L	1 l (pack of 2 bottles)



UEF: G300-F097-3009-ANDP

### Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again. The system must remain in function for at least 7 hours at maximum temperature. The Mayline35L may be left inside the system, but if a protective agent with inhibitors is used, than the self sealing liquid solution must be removed. If necessary, drain the system's water to eliminate any eventual residues.

### Important note

Shake the container well before use. Mayline 35L can be mixed with glycols and antifreezes but NOT with other chemical products. The self-sealing liquid may be left inside the system, but if a protective agent with inhibitors is used, than the self sealing liquid solution must be removed.

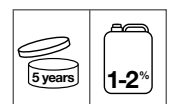
Protect the product from frost.

### Mixing proportions

1-2% (1-2 litres of Mayline 35L for every 100 litres of water).

ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Mayline 150

Self-sealing liquid

## Self-sealing liquid for heating installations with daily leakage of up to 150 litres

Mayline 150 seals leaks of up to 150 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 150 only functions in the presence of oxygen and is suitable for materials currently in use (synthetic and metallic). The product can even be used in open expansion tank systems.



**Mayline 150**  
Liquido autosigillante  
Liquido autosigillante per impianti di riscaldamento con perdita giornaliera fino a 150 litri

**ATTENZIONE**  
Contiene Sodio Silicato  
Indicazione di pericolo: H335 Provoca grave irritazione cutanea. H373 Può irritare la via respiratoria.

**UF1: 1500-X0YM-D00S-YYR**

**Consigli di prodotto:**  
P201 Evitare di respirare la nebbia e i vapori.  
P234 Lavorare accuratamente in modo da evitare l'uso.  
P280 Indossare guanti protettivi e proteggere il viso.  
P312 In caso di inalazione, contattare un CENTRO ANTIVISINE in un medico.  
P403+233 Tenere in recipiente ben chiuso e in luogo ben ventilato.

**Maychem s.r.l.**  
Via Negrelli, 15  
39100 Bolzano (BZ)  
Tel.: 0471/052852 • Fax: 0471/1988339  
E-Mail: info@maychem.it • www.maychem.it  
Anno di produzione: 2021

1 litro   
5 litri

code	package
5/MY150	5 l canister
1/MY150	1 l (pack of 12 bottles)



UF1: 1500-X0YM-D00S-YYR

### Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again. Use the pH strips on the container to check the pH value at the system's highest or most distance point. The pH value must be between 10.5 and 11. The system must remain in function for at least 7 hours at maximum temperature. After the sealing process has been completed, the Mayline 150 must be removed from the system. The product may remain inside the system for a maximum of 30 days. If necessary, drain the system's water to eliminate any eventual residues.

### Important note

Shake the container well before use. Mayline 150 can NOT be mixed with glycols, antifreezes or other chemical products. The self-sealing liquid may remain inside the system for a maximum of 30 days. Protect the product from frost.

### Mixing proportions

1-2% (1-2 litres of Mayline 150 for every 100 litres of water). The dose is sufficient once a pH value of 10.5 to 11 has been obtained. ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.

**Check** After inserting the product, check if the pH is between 10.5-11 to verify the correct dosage.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline 250

Self-sealing liquid

Self-sealing liquid for heating installations with daily leakage of up to 250 litres

Mayline 250 seals leaks of up to 250 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 250 only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product can even be used in open expansion tank systems.



**Mayline 250**  
Liquido autosigillante  
Liquido autosigillante per impianti di riscaldamento con perdita giornaliera fino a 250 litri

**ATTENZIONE**  
Contiene: Olio Silicio  
Indicazioni di pericolo: H229 Provoca grave irritazione cutanea. H333 Può irritare la via respiratoria.

**UFI: 1500-X0YM-D00S-YYRR**

**Consigli di protezione:**  
P231 Evitare di respirare la nebbia e i vapori.  
P280 Indossare guanti protettivi e proteggere il viso.  
P303 In caso di inalazione, inalazione o ingestione: ANTIVITALENTO un medico.  
P501/510 Tenere e smaltire bene chiusi e in luogo ben ventilato.

**maychem**  
MARCHEM s.r.l.  
Via Negrelli, 15  
39100 Bolzano (BZ)  
Tel.: 0471/052852 • Fax: 0471/1968339  
E-MAIL: IT020648500237  
info@maychem.it • www.maychem.it  
Anno di produzione: 2021

code	package
5/MY250	5 l canister
1/MY250	1 l (pack of 12 bottles)



UFI: 1500-X0YM-D00S-YYRR

## Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again. Use the pH strips on the container to check the pH value at the system's highest or most distance point. The pH value must be between 10.5 and 11. The system must remain in function for at least 7 hours at maximum temperature. After the sealing process has been completed, the Mayline 250 must be removed from the system. The product may remain inside the system for a maximum of 30 days. If necessary, drain the system's water to eliminate any eventual residues.

## Important note

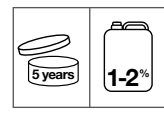
Shake the container well before use. Mayline 250 can NOT be mixed with glycols, antifreezes or other chemical products. The self-sealing liquid may remain inside the system for a maximum of 30 days. Protect the product from frost.

## Mixing proportions

1-2% (1-2 litres of Mayline 250 for every 100 litres of water). The dose is sufficient once a pH value of 10.5 to 11 has been obtained. ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.

**Check** After inserting the product, check if the pH is between 10.5-11 to verify the correct dosage.



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

## Disposal

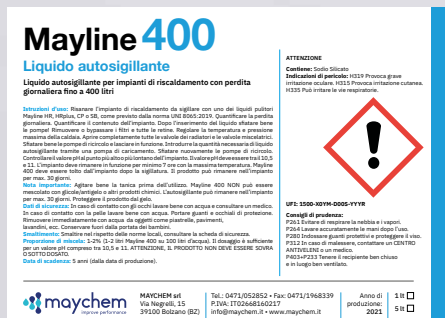
For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline 400

Self-sealing liquid

Self-sealing liquid for heating installations with daily leakage of up to 400 litres

Mayline 400 seals leaks of up to 400 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 400 only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product can even be used in open expansion tank systems.



code	package
5/MY400	5 l canister
1/MY400	1 l (pack of 12 bottles)



UFI: 1500-XOYM-D00S-YYR

## Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again. Use the pH strips on the container to check the pH value at the system's highest or most distance point. The pH value must be between 10.5 and 11. The system must remain in function for at least 7 hours at maximum temperature. After the sealing process has been completed, the Mayline 400 must be removed from the system. The product may remain inside the system for a maximum of 30 days. If necessary, drain the system's water to eliminate any eventual residues.

## Important note

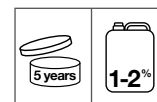
Shake the container well before use. Mayline 400 can NOT be mixed with glycols, antifreezes or other chemical products. The self-sealing liquid may remain inside the system for a maximum of 30 days. Protect the product from frost.

## Mixing proportions

1-2% (1-2 litres of Mayline 400 for every 100 litres of water). The dose is sufficient once a pH value of 10.5 to 11 has been obtained. ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.

**Check** After inserting the product, check if the pH is between 10.5-11 to verify the correct dosage.



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline 1000

Self-sealing liquid

## Self-sealing liquid for heating installations with daily leakage of up to 1000 litres

Mayline 1000 seals leaks of up to 1000 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 1000 only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product can even be used in open expansion tank systems.



code	package
5/MY1000	5 l canister
1/MY1000	1 l (pack of 12 bottles)



UFI: 1500-XOYM-D00S-YYR

### Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again. Use the pH strips on the container to check the pH value at the system's highest or most distance point. The pH value must be between 10.5 and 11. The system must remain in function for at least 7 hours at maximum temperature. After the sealing process has been completed, the Mayline 1000 must be removed from the system. The product may remain inside the system for a maximum of 30 days. If necessary, drain the system's water to eliminate any eventual residues.

### Important note

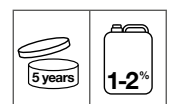
Shake the container well before use. Mayline 1000 can NOT be mixed with glycols, antifreezes or other chemical products. The self-sealing liquid may remain inside the system for a maximum of 30 days. Protect the product from frost.

### Mixing proportions

1-2% (1-2 litres of Mayline 250 for every 100 litres of water). The dose is sufficient once a pH value of 10.5 to 11 has been obtained. ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.

**Check** After inserting the product, check if the pH is between 10.5-11 to verify the correct dosage.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline 2500

Self-sealing liquid

## Self-sealing liquid for heating installations with daily leakage of up to 2500 litres

Mayline 2500 seals leaks of up to 2500 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline 2500 only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product can even be used in open expansion tank systems.



**Mayline 2500**  
Liquido autosigillante  
Liquido autosigillante per impianti di riscaldamento con perdita giornaliera fino a 2500 litri

**ATTENZIONE**  
Contiene: Cloruro di Calcio  
Indicazioni di pericolo: H319 Provoca grave irritazione oculare. H312 Provoca irritazione cutanea. H335 Può irritare la via respiratoria.

**Consigli di protezione:**  
P201 Lettura di istruzioni obbligatoria e lettura dell'etichetta.  
P202 Conservare questo prodotto e proteggerlo.  
P273 Evitare il rilascio nell'ambiente.  
P501 Smaltire il contenuto nel contenitore originale o in un contenitore adeguato.

**UF1: 1500-XOYM-D00S-YYR**

**Maychem**  
MAYCHEM s.r.l.  
Via Ingilterra, 15  
39100 Bolzano (BZ)  
Tel.: 0471/052852 • Fax: 0471/196839  
E-MAIL: IT05046500217  
info@maychem.it • www.maychem.it

Anno di produzione: 2021

1 litro 5 litri

code	package
5/MY2500	5 l canister
1/MY2500	1 l (pack of 12 bottles)



UF1: 1500-XOYM-D00S-YYR

### Instructions for use

Quantify the daily leakage. Quantify the system's contents. Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Adjust the boiler's maximum temperature and pressure. Open all radiator valves and mixing valves completely. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again. Use the pH strips on the container to check the pH value at the system's highest or most distance point. The pH value must be between 10.5 and 11. The system must remain in function for at least 7 hours at maximum temperature. After the sealing process has been completed, the Mayline 2500 must be removed from the system. The product may remain inside the system for a maximum of 30 days. If necessary, drain the system's water to eliminate any eventual residues.

### Important note

Shake the container well before use. Mayline 2500 can NOT be mixed with glycols, antifreezes or other chemical products. The self-sealing liquid may remain inside the system for a maximum of 30 days. Protect the product from frost.

### Mixing proportions

1-2% (1-2 litres of Mayline 400 for every 100 litres of water). The dose is sufficient once a pH value of 10.5 to 11 has been obtained. ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** Minimum 7 hours with high temperature of at least 5 degrees Celsius and high pressure of at least 0.7 bar compared to the normal operating pressure.

**Check** After inserting the product, check if the pH is between 10.5-11 to verify the correct dosage.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline F

Self-sealing liquid for solar heating systems

## Elastic self-sealing liquid for heating installations with daily leakage of up to 15 litres

Mayline F seals leaks of up to 15 litres per day. The self-sealing liquid is based on the principle of providing a mechanical seal from the outside. Mayline F only functions in the presence of oxygen and is suitable for all materials currently in use (synthetic and metallic). The product provides the seal with a certain elasticity and fully compatible with glycols. The sealing is done in ca. 14 days.



code	package
5/MYF	5 l canister
1/MYF	1 l (pack of 12 bottles)
2/MYF	1 l (pack of 2 bottles)



UFI: G300-F097-3009-ANDP

### Instructions for use

Quantify the system's contents. Clean the system with Mayline Solar before.

Bleed the pumps well after inserting the liquid! Remove or bypass all the filters and screens. Bleed the re-circulation pumps well and leave them in function. Use a loading pump to insert the necessary amount of self-sealing liquid. Bleed the re-circulation pumps again.

The system must remain in function for at least 4 hours at maximum temperature. The Mayline F may be left inside the system.

The sealing is done in ca. 14 days.

### Important note

Shake the container well before use. Mayline F can be mixed with glycols and antifreezes but NOT with other chemical products. The self-sealing liquid may be left inside the system.

Protect the product from frost.

### Mixing proportions

1-2% (1-2 litres of Mayline F for every 100 litres of water/glycol mix).

ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.

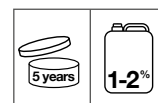
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.

Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.

Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.





# MaylinePROTSAN

Self-sealing and protective liquid

## Self-sealing and protective liquid for heating installations with daily leakage of up to 10 litres

Mayline PROTSAN is a protective sealant liquid which protects iron, steel, copper and aluminium heating components against corrosion, above all in floor heating systems made from synthetic materials with oxygen diffusion problems, by creating a protective film on metallic pipes and parts.

Mayline PROTSAN seals also leakages of up to 10 litres daily and these product is highly recommended for older heatig installations with leak problems.

code	package
5/MYPROTSAN	5 l canister
1/MYPROTSAN	1 l (pack of 12 bottles)
2/MYPROTSAN	1 l (pack of 2 bottles)



UFI: G300-F097-3009-ANDP



### Mayline PROTSAN

Liquido autosigillante protettivo

Liquido autosigillante protettivo per impianti di riscaldamento con perdita giornaliera fino a 10 litri

Interventi di manutenzione e impianto di riscaldamento da seguire con uno dei liquidi protettivi a base di Mayline HR, HRplus, CP o CP-L, come previsto dalla norma UNI EN12053. Verificare e calcolare il contenuto di acqua dell'impianto. Riempire a metà l'impianto di riscaldamento con acqua. Introdurre la quantità necessaria di Mayline PROTSAN tramite una pompa di accensione. Riempire l'impianto con acqua, abbassare bene e accendere la pompa per mettere in circolazione l'acqua. Nel caso che nell'impianto siano già presenti delle riserve d'acqua, il prodotto al 2% garantisce l'efficacia in presenza di perdite fino a 10 litri al giorno. In caso di perdite superiori, abbassare bene la pompa di ricambio ed il punto più alto/lontano dell'impianto per assicurare l'azione. Spostare la funzione di protezione per almeno 7 ore consecutive. Ripetere l'operazione se necessario. Impostare la temperatura e pressione di esercizio normale dell'impianto. Mayline PROTSAN deve essere applicato ogni 2 anni, mantenendo l'acqua dell'impianto sempre a temperatura ambiente.



**ATTENZIONE**  
Contiene: Sodio Silicato  
Sostanze pericolose: 0212 (P201) Prendere precauzioni oculari, 0312 (P202) Evitare l'inalazione cutanea, 0512 (P203) Non entrare in contatto con la pelle

**UFI: G300-F097-3009-ANDP**  
Categorie di protezione:  
P201 Evitare di respirare la nebbia e i vapori.  
P202 Evitare l'inalazione dei vapori.  
P203 Evitare di entrare in contatto con la pelle.  
P204 Evitare l'ingresso del prodotto negli occhi.  
P210 Evitare di respirare la nebbia e i vapori.  
P211 Evitare l'ingresso del prodotto negli occhi.  
P212 In caso di inalazione, ventilare e consultare il medico.  
P213 In caso di contatto con la pelle, lavare con acqua e sapone.  
P231 Evitare di congelare.  
P232 Evitare di versare.

maychem  
MAYCHEM s.r.l.  
Via Negrelli, 15  
39100 Bolzano (BZ)

Tel.: 0471/052852 • Fax: 0471/1968339  
E-mail: info@maychem.it • www.maychem.it

Anno di produzione: 2021

1 litro  
5 litri

### Instructions for use

Clean the heating installation, using a cleaner like as Mayline HR., HRplus, CP, CP-L for heating installations with radiators or Mayline Sb for floor heating installations. Verify or calculate the water content of the system to be sealed. Fill in the heating system halfway with water. Use a loading pump to insert the necessary amount of protective self-sealing liquid Mayline PROTSAN. Fill in the system with water, bleed it well and turn on the pumps to start the water circulating. Fill in the system again with water and protective liquid.

If there are present leakages in the heating installation, remove or bypass all the filters and screens and then adjust the boiler's maximum temperature at least 5 degrees Celsius and a high pressure of at least 0.7 bar compared to the normal operating pressure. Open all radiator valves and mixing valves completely.

Bleed the pumps well after inserting the liquid and bleed it well again and leave them in function. The system must remain in function for at least 7 hours in this condition.

After the sealing to adjust again the normally operating temperature and pressure.

The Mayline PROTSAN must be left inside the system as protective agent.

### Important note

Shake the container well before use. Mayline PROTSAN can be mixed with glycols and antifreezes but NOT with other chemical products. The product MUST be left inside the system.

Protect the product from frost.

### Mixing proportions

1-2% (1-2 litres of Mayline PROTSAN for every 100 litres of water).

ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.

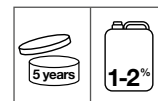
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.

Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.

Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



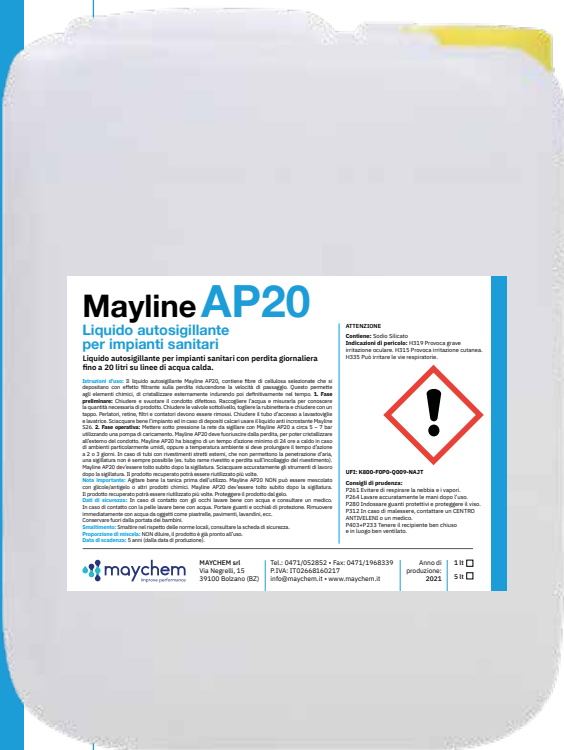
# Mayline AP20

Self-sealing liquid for tap water installations

## Self-sealing liquid for tap water installations with daily leakage of up to 20 litres

Mayline AP20 is a liquid which eliminates leaks in tap water installations of up to 20 L per day and is suitable for use with all of material currently in use, even plastic, certified for use with drinking water.

The product can be used to seal leaks due to corrosion, cracks and defective soldering in galvanised, copper, steel and synthetic pipes. Mayline AP20 is long lasting and resistant to deterioration. Mayline AP20 can be used in the food sector.



### Mayline AP20

Liquido autosigillante per impianti sanitari  
Fino a 20 litri su linee di acqua calda.

**Attenzione:** Questo liquido è indicato per l'uso in impianti sanitari. È vietato l'uso in impianti industriali e agricoli. Il prodotto è tossico e irritante. Evitare il contatto con la pelle e gli occhi. In caso di contatto, lavare immediatamente con abbondante acqua. Conservare il prodotto in un luogo fresco e asciutto, lontano da fonti di calore e da materiali infiammabili. Il prodotto è stabile per almeno 5 anni. Il prodotto è adatto per l'uso in impianti sanitari. È vietato l'uso in impianti industriali e agricoli. Il prodotto è tossico e irritante. Evitare il contatto con la pelle e gli occhi. In caso di contatto, lavare immediatamente con abbondante acqua. Conservare il prodotto in un luogo fresco e asciutto, lontano da fonti di calore e da materiali infiammabili. Il prodotto è stabile per almeno 5 anni.

#### ATTENZIONE

Contiene: Sodio clorato  
Indicazioni di pericolo: H314 Pericolosa grave  
Inquinante acquatico, H411 Pericoloso per l'ambiente acquatico, H332 Può irritare le vie respiratorie.



UFI: K800-F0P0-Q009-NAJT

**Consigli di prudenza:**  
P201 Evitare di respirare la nebbia ai vapori.  
P273 Evitare l'inquinamento del suolo e delle acque.  
P280 Indossare guanti protettivi e proteggere i vestiti.  
P303+P361+P531 In caso di contatto con la pelle (o i capelli), lavare immediatamente con abbondante acqua.  
P501 Smaltire il contenuto nel contenitore originale.



MAYCHEM s.r.l.  
Via Magliolo, 12  
39100 Bolzano (BZ)

Tel.: 0471.052852 • Fax: 0471.1968339  
P. IVA: IT02048610227  
info@maychem.it • www.maychem.it

Anno di produzione: 2021

1 litro  
5 litri

code	package
5/MYAP20	5 l canister
1/MYAP20	1 l (pack of 12 bottles)



UFI: K800-F0P0-Q009-NAJT

## Instructions for use

Mayline AP20 self-sealing liquid contains selective cellulose fibres which are deposited over the leak, thereby providing a filtering effect that reduces the flow. This allows the chemical elements crystallize externally and harden definitively over time.

### 1. Preliminary phase

Close off and empty the defective line. Collect the water and measure it to determine the necessary amount of product. Close of the valves beneath the wash basin, remove the tap and seal off with a stopper. Perlaters, screens, filters and counters must be removed. Seal off the access tubes for any dishwashers and washing machines. Rinse the system out well and remove any calcium deposits using Mayline S26 liquid descaler.

### 2. Operative phase

Pressurize the circuit to be sealed with AP20 to about 5 – 7 bar using a loading pump. The Mayline AP20 must come out of the leak in order to crystallize inside the line. In the case of particularly humid environments, Mayline AP20 requires at least 24 hours under hot conditions to set. At room temperature, this time must be extended to 2 or 3 days. In the case of pipes with tight external coverings which do not allow air to pass, sealing is not always possible (ex. a covered copper pipe with a leak where the covering is glued). After the sealing process the product has to be collected, all working tools has to be cleaned accurately. The product can be reused many times.

## Important note

Shake the container well before use. Mayline AP20 can NOT be mixed with glycols, antifreezes or other chemical products. After the sealing process has been completed, the Mayline AP20 must be immediately removed from the system. The recovered product can be reused various times. Protect the product from frost.

## Mixing proportions

DO NOT DILUTE. THE PRODUCT COMES READY FOR USE.

**Application time** Minimum 24 hours with pressure at least 2 bar higher than the normal operating pressure



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline POOL

Self-sealing liquid for pools

## Self-sealing liquid for swimming pools

Mayline POOL self-sealing liquid eliminates water leaks in pools of almost any size, sealing both pipes and joints. The product is suitable for use with all common materials, such as plastic, PVC, metal, concrete and others.

The potential of sealing with Mayline POOL are a lost of MAX. 24cm of level in 24 hours, no matter how much water content it has.

code	package
5/MYPOOL	5 l canister
10/MYPOOL	10 l canister



UFI: 1500-XOYM-D00S-YYRR



**Mayline POOL**  
Liquido autosigillante  
Liquido autosigillante per piscine

**ATTENZIONE**  
Contiene Sodio Selenato  
Indicazioni di pericolo: H331 Provoca grave irritazione oculare. H332 Provoca irritazione cutanea. H335 Può irritare la via respiratoria.

**Severità d'uso:** Le piscine contenenti sostanze oleose devono essere accuratamente lavate prima dell'impiego del liquido autosigillante Mayline POOL. Rimuovere completamente tutti gli oggetti dalla piscina da sigillare. Togliere i fili dalla piscina e ricambiare il prodotto. Iniziativa della pompa di movimento nella piscina e non smettere il prodotto per circa 2 giorni. Rimuovere i fili per non condurre la pompa della piscina per evitare la fibre ancora in circolazione. Lavare i filtri della piscina per 2 volte a distanza di 2 ore. Se vengono di non utilizzare la piscina nella fase di sigillatura. Dopo la sigillatura la piscina non deve essere vuotata.

**Nota importante:** Si consiglia di non utilizzare la piscina nella fase di sigillatura. Dopo la sigillatura la piscina non deve essere vuotata.

**ATTENZIONE:** La sigillatura NON è GARANTITA, in modo particolare se la perdita della piscina è dovuta a problemi strutturali come movimenti del sottoground o squilibri del terreno. Privilegiare il prodotto del pool.

**Chi è interessato:** In caso di contatto con gli occhi lavare bene con acqua e consultare un medico. In caso di contatto con la pelle lavare bene con acqua. Portare guanti occlusivi al polsino. Trovare un veterinario con esperienza di aggravi come parassiti, leishmaniosi, leishmaniosi, ecc. Conservare fuori dalla portata dei bambini.

**Precauzioni di utilizzo:** Consultare nel rispetto delle norme locali, consultate le schede di sicurezza.

**Precauzioni di utilizzo:** Evitare il contatto con Mayline POOL, in caso di contatto con la pelle lavare bene con acqua. In caso di irradiazione di energia ionizzante, aumentare la concentrazione.

**Data di scadenza:** 3 anni (data di produzione).

**UFI: 1500-XOYM-D00S-YYRR**

**Consigli di protezione:**  
P201 Evitare di respirare la nebbia e i vapori.  
P204 Lavare accuratamente le mani dopo l'uso.  
P202 Distanziare dagli alimenti e dagli animali.  
P210 In caso di inalazione, consultare un medico.  
P273 Evitare di scaricare in acqua.  
P280 Indossare guanti di protezione.  
P302+P352 In caso di contatto con la pelle lavare bene con acqua e consultare un medico.  
P303+P361+P353 In caso di contatto con gli occhi lavare bene con acqua e consultare un medico.  
P308+P313 In caso di inalazione, consultare un medico.  
P501 Smaltire in conformità con le norme locali.

**maychem** **MAYCHEM s.r.l.**  
Via Negulesi, 15  
39100 Bolzano (BZ)

Tel.: 0471/052852 • Fax: 0471/1968339  
P204: 170046540237  
info@maychem.it • www.maychem.it

Anno di produzione: 2021

5 lt □  
10 lt □

### Instructions for use

If the swimming pools contain oily substances must be carefully cleaned before using Mayline POOL self sealing liquid. Verify the water content in litres of the swimming pool to be sealed. Remove the swimming pool's filters and insert the product. Insert reciprocating pumps into the swimming pool and allow the product to circulate for about two days. Reinstall the filters and activate the pool's pump to removes any fibres that are still in circulation. Wash the pools filters three times at 2 hour intervals. It is recommended to NOT use the swimming pool during the sealing phase. The pool does not have to be emptied once the sealing process has been completed.

### Important note

It is recommended to NOT use the swimming pool during the sealing phase. The pool does not have to be emptied once the sealing process has been completed.

Sealing of salt water pools is not possible.

ATTENTION: Sealing is not GUARANTEED if there are moving lateral wall structures or if the foundation slab are too weak!

Protect the product from frost.

### Mixing proportions

0.1% (1 litre of Mayline POOL for every 1.000 litres of water contained in the swimming pool). Increase the concentration in the case of large leaks.

**Application time** Circulate the self-sealing solution with immersion pumps (1 pump every 35-40 m3 of water) for at least 48 hours.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline NASTRO FUSION

Self-amalgamating silicone tape



Mayline NASTRO FUSION is a self-sealing silicone-based tape for repairing heating and plumbing systems and air hoses. Withstands temperatures from -70 °C up to +270 °C.

Mayline NASTRO FUSION is a solvent-free, silicone-based sealant designed specifically for visible applications. Mayline NASTRO FUSION is perfect for a wide range of uses, sealing water leaks on visible tubes and, above all, wherever other sealing methods cannot be employed. Thanks to its new composition, Mayline NASTRO FUSION is capable of sealing any material, including air hoses and tap water plumbing components, eliminating leaks in just a few seconds time.

Mayline NASTRO FUSION is capable of withstanding temperatures of up to + 270 °C and pressure levels of up to 9 bar, and can even be used in the presence of moisture. Mayline NASTRO FUSION is resistant to acids, solvents, fuels, seawater and even UV rays.

code	package
4/MYNFUS	4 rolls of 3 mt / tape width 25 mm



## Instructions for use

Clean the surface around the leak to be sealed, then cut off a sufficient length of Mayline NASTRO FUSION to be wrapped several times around the leak. Remove and discard the transparent film.

Mayline NASTRO FUSION is double-sided. Holding one end in position, wind the tape completely around the object, so that initial end is covered. Maintain a constant path as you continue winding the tape, making sure that each new wrap overlaps the previous one. The various layers will fuse together after a few minutes.

When applying Mayline NASTRO FUSION to materials under pressure, such as radiators, garden hoses or air hoses, pull the tape as tight as possible and apply it in several layers.

The application of various layers will render the repair of the pressurized material more durable and resistant.

## Important note

The surface to be sealed must be free of any oily substances.

## Shelf life

Closed package 12 months, open package 6 months

**Application time** After winding the Fusion Tape, wait for at least 5 minutes to ensure maximum hold.

**Check** Before applying the product, thoroughly clean the surfaces on which you intend to apply it, and make sure if they are free of oily substances.





improve  
performance

# Mayline GASTOP

Self-sealing liquid for screw connections  
in gas pipes

Self-sealing liquid for screw connections in gas pipes  
systems in compliance with the norm EN 11137-1

Mayline Gastop is a liquid used for the secondary sealing of screw connections on gas installations, system certified for single application – according to UNI EN 13090. Mayline Gastop is a mixture of solvents and synthetic materials. The product is suitable for sealing of thread leakage. The application must be performed in accordance with UNI EN 11137-1 for the secondary sealing of gas utility pipes. Mayline Gastop only requires a single application.



code	package
10/MYGAST	10 kg canister
20/MYGAST	20 kg canister



UFI: 2P00-0040-700S-Y1G4

## Instructions for use

### 1. PIPE INSPECTION

Uninstall the counter and the gas device. Install stoppers on the ends of all the lines. Even the blind pipe plugs which are still under pressure must be uninstalled and replaced with a stopper. Do not over-tighten the fittings.

### 2. LEAK INSPECTION IN COMPLIANCE WITH THE CURRENT LEGISLATION

European law requires for gas installations to be free of leaks and the inspection methods are provided in the relative regulations. A digital manometer can be used for the inspection.

### 3. PRESSURE CHECK

In order to check the pressure, the gas installation must be pressurised to 3 bar for about 3 - 5 minutes. This helps to identify any eventual damage due to unseen corrosion while preventing significant quantities of sealant from leaking out while the pressurised pipe is being filled.

### 4. SYSTEM CLEANING

In order to remove any eventual dust, rust or other deposits from the gas pipes, a braided drainage hose must be connected near the counter, at the lowest point of the system, and fed into a collection filter, preferably outdoors.

The lines must be cleaned out using nitrogen (or compressed air), blowing from all of the ends until the system is completely purged and no more dust or fil comes out.

### 5. FILLING WITH SELF SEALING LIQUID

The line must be filled from the lowermost point towards the uppermost. The Gastop certified membrane pump tool, with nitrogen and compressed air functionality, must be used to fill the line (make sure that enough Mayline Gastop self-sealing liquid is available).

The gas circuit must be carefully bled, starting at the lowermost point, with the stoppers installed in place of the counter, or rather the point nearest to the gas supply point, and moving towards the uppermost or most distant point in the system.

Once filling has been completed, bring the system to a pressure of 3 bar, plus 1 bar for every 10 metres in height of the line to be sealed (pressure of 3 bar at the uppermost point), in order to compress the sealant into the threaded joints. For optimal sealing results, be sure to use exclusively Gastop certified instrumentation. In order to maintain a constant pressure during the 2 hours required for the sealant to set, a 1 or 2 litre volume nitrogen cushion must be installed at the uppermost point of the system in order to allow for the possibility of expansion (maximum 3 bar).

#### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

#### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

## 6. EMPTYING THE SELF-SEALING LIQUID

Slowly release the pressure in the line. Empty the line from the lowermost stopper, by opening the appropriate valves, and collect the liquid. Blow the self-sealing liquid out of the pipe with nitrogen or compressed air, starting from the uppermost point and working towards the lowermost point. Repeat the operation for all of the joints: all of the points of the line must be cleaned.

## 7. INSERTING OF MOLCH BALLS

Once no more sealant comes out, special MOLCH balls must be inserted into the lines. The diameter of the balls must be at least 10% greater than the largest diameter of the line (max. twice the diameter). The molch balls must be inserted into the terminal points of the gas lines and blown into the lines using nitrogen or compressed air; in this manner, the molch balls push the sealant ahead of them, moving it towards the recovery container. The procedure must be repeated at least two times in order to remove all of the remaining product. The procedure may have to be repeated various times based on the actual necessities. The recovered product can be reused various times.

Dirty product can be cleaned using a filter.

## 8. DRYING

The drying procedure is performed using the Mayline Gastop “blower” instrument. Connect the discharge terminals to the ½” tubes, place them in buckets so as not to dirty the floor and proceed with the drying procedure. Install the blower so that it is unhindered, with no obstacles blocking its suction lines. In the event of loss of power, check the filter. Use the air to dry the system, then check the air tightness of the system according to the current legal standards. The system must be free of leaks and no putties or other means must be used to seal it.

## 9. TESTING THE GAS PIPES SYSTEM

After the testing has been completed, the system can be re-commissioned according to the current standards.

### Important note

Shake the container well before use. Mayline Gastop can NOT be mixed with other chemical products. Once the sealing process has been completed, the Mayline Gastop self-sealing liquid must be immediately removed from the system. The recovered product can be reused various times. Protect the product from frost.

### Mixing proportions

DO NOT DILUTE. The product comes ready for use.

**Application time** Insert the product at 3 bar at least 2 hours, add 1 bar for every 10 meters of height of the pipe system. Dry the system for at least 1 hour after passing the molch balls.



Visit our website [www.maychem.it](http://www.maychem.it) and watch the technical video on the application of MAYLINE GASTOP

(currently only in Italian language)



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Systemcare

## For a clean and protected heating system

FOR UNDERFLOOR HEATING AND RADIATION SYSTEMS  
(LOW TEMPERATURE SYSTEMS)

### Mayline SB + Mayline SBA

#### Mayline SB

Liquid cleaner for removing sludge with bio oxidant additive for low temperature heating systems (floor heating and radiant panels), dilution 1%, 4 hours with boiler pump with. MAX temperature 40°C or 5 hours with external flushing pump (room temperature). For further technical details see page 43.



#### Mayline SBA

Protector with inhibitors and bio-blocker additive as "Triple formulation" for low temperature heating systems, dilution 1%, protector-check every 12 months. For further technical details see page 53.



code	package
KIT_SB/SBA	1 Kit (2 bottles of 1l)

FOR HEATING SYSTEMS WITH RADIATORS  
(WITH TEMPERATURES OVER 50 ° C.)

### Mayline HR + Mayline K32

#### Mayline HR

Cleaner with inhibitors for restoring heating installations with radiators, dilution 0,5% for low muddy circuits, 1% for muddy circuits, application time from 2 to 4 days with boiler pump with. MAX temperature 50°C. For further technical details see page 40.



#### Mayline K32

Long term protector with molybdenum based corrosion inhibitors for heating installations with radiators, dilution 0,5% for new heating circuits, 1% for cleaned heating circuits, protector-check every 12 months. For further technical details see page 52.



code	package
KIT_HR/K32	1 Kit (2 bottles of 1l)

FÜR HEIZUNGSANLAGEN MIT HEIZKÖRPERN  
(MIT TEMPERATUREN ÜBER 50°C.)

### Mayline HR Plus + Mayline K32

#### Mayline HR plus

Cleaner with inhibitors for restoring heating installations with radiators, dilution 1%, application time from 3 to 4 hours with external flushing pump (room temperature), for heavily muddy heating circuits extend the flushing time for further 2 or 3 hours. For further technical details see page 39.



#### Mayline K32

Long term protector with molybdenum based corrosion inhibitors for heating installations with radiators, dilution 0,5% for new heating circuits, 1% for cleaned heating circuits, protector-check every 12 months. For further technical details see page 52.



code	package
KIT_HRP/K32	1 Kit (2 bottles of 1l)

MAGNETIC DIRT SEPARATOR FOR HEATING SYSTEMS

### Mayline DEFMAG 2

#### Magnetic dirt and sludge separator for heating installations up to 35kW

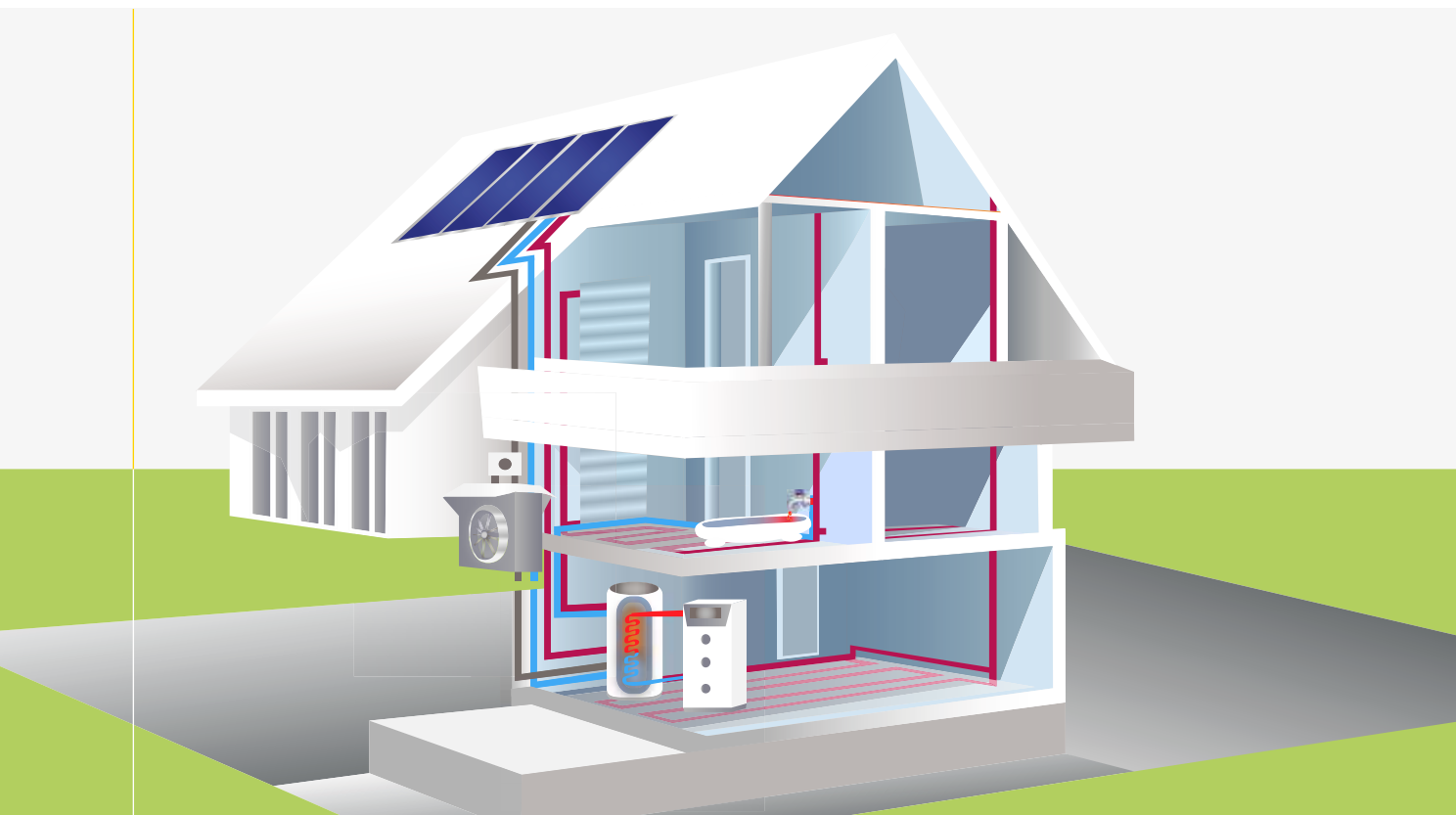
- Helical flux technology with a 12,000 Gauss neodymium magnet
- Removes both magnetic and non-magnetic debris
- Non-stick filter in the flow direction to ensure the decantation of non-magnetic impurities
- Includes rinse valve to an easy clean up by an drain valve
- Easy positioning, mounting on both horizontal and vertical pipes by means of an adjustable ring nut
- Vertical installation or inclined mounting up to 45°

code	package
MY/DEFMAG2	1 pcs

(For product description, see page 66)



# Mayline Cleaners and protectors



**Specific cleaner for solar systems or glycol treated systems**

Mayline SOLAR

**High concentrated special cleaner for surfaces of photovoltaic- and thermal solar panels**

Mayline PVS

**Inhibited acid for cleaning heat exchangers (water sided)**

Mayline PULIBOILER

**Cleaner for residues of combustion on heat exchangers**

Mayline Caltec plus

**Cleaner for new heating installations (in high or low temperature) or thermic solar systems**

Mayline Norovisan

**Sanitizing cleaner for air conditioning, finned coils, etc.**

Mayline R99

**Cleaner for floor heating installations**

Mayline SB, to use with the boiler pump for 4 hours, max. 40° C, or with an external washing pump for 5 hours (room temperature)

**Protective liquid with molybdenum based corrosion inhibitors and bio-blocker for floor heating systems**

Mayline SBA, Protector with "Triple formulation" inhibitors to protect from corrosion, incrustation and biological growths

**Cleaners for heating installations with radiators**

- Mayline HR Plus, to use with an external flushing pump for 3 hours
- Mayline HR, to use with the boiler- or system pump from 2 to 4 days, max. temperature 50°C
- Mayline CP, with neutral pH "7", to use with the boiler- or system pump from 8 to 10 days, max. temperature 70°C
- Mayline CPL, with neutral pH "7", to use with the boiler- or system pump from 30 to 90 days, max. temperature 70°C

**Protective liquids with inhibitors for heating circuits with radiators**

- Mayline K32, Long term protector with molybdenum based inhibitors to protect against corrosion and incrustation
- Mayline Protec, Protector with fosfate-molybdenum corrosion inhibitors to protect against corrosion

**Special protective liquid with self sealing effect**

Mayline Protsan, protector to protect against corrosion and incrustation with self-sealing effect up to 10 litres daily (see page 27)

**Descaler for removing encrustations in tap water installations**

Mayline S26

**Descaler for removing encrustations in heating installations**

Mayline R13

**Highly efficient cleaner for shower or sink drains**

Mayline DISOFORTE

# Mayline Novorisan

Cleaner for new systems

Cleaner for new heating installations (in high or low temperature) or thermic solar systems

Cleaner to apply in new heating systems for high or low temperature, or in thermal solar systems, to use with system pumps or with external pump (if practicable). The product has dissolving properties for processing residues and is able to neutralize and pick up any presence of oily substances or abrasions resulting from the production phase of the individual components presents in a new system.

Suitable for all materials in use such as steel, copper, black iron, aluminium, synthetic and multilayer composite pipes.



**Mayline Novorisan**  
**Liquido pulitore per impianti nuovi**  
 in alta e/o bassa temperatura ed impianti solari

**PERICOLO**  
 Contiene: Tris(dimetilamminio)acetato di Tetraacido Acido ortofosforico, Caproalcolio (Reg. CE) 646/2006: uguale o superiore al 5 % ma inferiore al 15 % CEE.

**Indicazioni di pericolo:** H318 Provoca gravi lesioni oculari.

**Cautele di prudenza:** P201+P202, P273, P301+P330+P331, P302+P352, P305+P351+P338, P501.

**UFI: 6C00-YOCE-0005-9P4V**

**Cautele di prudenza:** P201+P202, P273, P301+P330+P331, P302+P352, P305+P351+P338, P501.

**Maychem s.p.a.**  
 Via Nargheli, 15  
 39100 Bolzano (BZ)

Tel.: 0471/052852 - Fax: 0471/196839  
 P. IVA: 07064680227  
 info@maychem.it • www.maychem.it

Anno di produzione: 2021

S 18 □  
 S 18 □

code	package
5/MYNORI	5 l canister
1/MYNORI	1 l (pack of 12 bottles)
2/MYNORI	1 l (pack of 2 bottles)



UFI: 6C00-YOCE-0005-9P4V

## Instructions for use

Before cleaning, empty the system and fill in with clean water. All valves in the circuit must be fully opened. Insert Mayline NOVORISAN at 1% and turn on the pumps to obtain an optimal mixing. The action time varies from 2 (small system) to 4 hours (large system) with a low temperature that must not exceed 65° C, or in room temperature if the product is used with an external flushing pump. Use the same application time if the cleaning process is performed with an external flushing pump. At the end of the cleaning operation, completely empty the heating system and rinse the system thoroughly with clear water. For protecting the new system insert a correct water treatment for the type of system such as Mayline K32, Mayline SBA, Mayline Protec etc. and install a combined dirt separator preferably with a magnet of at least 10.000 Gauss.

## Important note

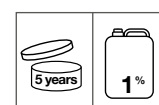
Do not exceed the flow temperature of 65 ° C. The heating system must be free from any additional substances and filled with the clear water. Follow the instructions carefully. Mayline NOVORISAN must be removed from the system after cleaning, empty the system and rinse thoroughly with the clear water after cleaning. Mayline NOVORISAN cannot be mixed with other chemical products. Protect the product from frost!

## Mixing proportions

1% (1 litre of Mayline Novorisan for every 100 litres of water).  
**ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.**

**Application time** From 2 to 4 hours with external pump or with the boiler / system pump, check and ensure that all valves are fully opened.

**Check** Using a conductivity meter to measure the  $\mu\text{S}/\text{cm}$  value of the mains water used and subsequently the water of the solution with the cleaner: the delta value must be approx. 1,200 $\mu\text{S}/\text{cm}$



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
 In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
 Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
 Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline HR Plus

Quick-acting cleaner for systems with radiators

Quick-acting cleaner for heating installations with radiators in 3 hrs

Mayline HR plus is a cleaner with inhibitors for heating systems, to use with external pump for frees the circuits and radiators of lime scale deposits, rust and sludge sediments, thereby to restore the full heating efficiency. The product can be use only with external flushing pump, for cleaning existed systems with mud problems and for restoring the energetic heating efficiency to older systems.

Mayline HR is suitable for all materials in use such as steel, copper, black iron, aluminium, synthetic and multilayer composite pipes.

code	package
5/MYHRP	5 l canister
1/MYHRP	1 l (pack of 12 bottles)
2/MYHRP	1 l (pack of 2 bottles)



UFI: TS00-G0TD-J008-MD26



**Mayline HR Plus**  
Liquido pulitore rapido per alta temperatura  
Liquido pulitore per impianti di riscaldamento con pompa esterna, lavaggio rapido in 3 ore

**Indicazioni d'uso:** Prima della pulizia sciacquare il fango dell'impianto e scaldarlo con acqua fresca. Collegare la pompa di lavaggio all'impianto, installare il liquido nel più corretto concentrazione del 1% (1 litro su 100 litri). Chiudere la pompa prima di accendere la pompa di lavaggio. Per ottenere l'effetto pulente del prodotto per 3 ore di lavaggio, non usare radiatori con il rubinetto chiuso. Con una temperatura per 3-4 ore, chiudere di tutte le valvole dei radiatori, e aprire la pulizia agente radiatore per radiatore per 15-20 minuti. A termine pulire tutti l'impianto e sciacquare tutto subito con acqua pulita per almeno 60 minuti. A termine dell'intervento di pulizia, svuotare completamente il sistema di riscaldamento e riacquistare bene l'impianto con acqua fresca di rete. Per il lavaggio in modo corretto l'impianto di riscaldamento pulito, si consiglia l'impiego del liquido protettivo Mayline K32 oppure di antigelo Mayline P2. Tutti i materiali tecnici UNI EN ISO 2002:2011 per il riscaldamento dell'impianto.

**Nota importante:** L'impiego di riscaldamento deve essere fornito di buone condizioni igieniche (antiscalfatura, liquidi acidi regolari, saponi, rubinetti, grondaie e acqua calda). Per il lavaggio si devono utilizzare pompe pulitrici, per impianti molto sporchi estendere i tempi di lavaggio (3) per garantire una pulizia adeguata, nel caso si rinvenga anche la situazione di pulizia. Mayline HR plus NON può essere miscelato con altri prodotti chimici, a termine dell'intervento di pulizia, svuotare completamente il sistema di riscaldamento e riacquistare bene l'impianto con acqua fresca di rete. Usare un condizionatore antigelo come richiesto dal UNI EN ISO 2002:2011 e la normativa tecnica UNI EN ISO 2002:2011. Il prodotto è prodotto dal 30/05/2012 al 30/05/2012. Il 1% di Mayline HR plus su 100 litri di acqua di riscaldamento.

**Attenzione:** Il prodotto non deve essere usato a caldo.

**Nota di sicurezza:** In caso di contatto con gli occhi lavare bene con acqua e consultare un medico. In caso di contatto con la pelle lavare bene con acqua. Portare guanti, occhiali e maschera e ventosa di protezione. Rimuovere immediatamente ricorrendo abbondantemente con acqua da altri oggetti e di loro ogni applicazione. Conservare fuori dalla portata dei bambini.

**Contatto:** Selezionare nel rispetto della norme locali, consultare la scheda di sicurezza.

**Data di scadenza:** 3 anni dalla data di produzione.

**EUH230** Contatto con il sistema circolatorio può richiedere Comparsazione (Reg. CE) 445/2004  
Tenere completamente da bambini.  
UFI: TS00-G0TD-J008-MD26

**maychem** **MANCHEM srl** Tel.: 0471.052852 • Fax: 0471.1968339 Anno di produzione: 2022 5 l e 1 l

Via Maglioli, 15 39100 Bolzano (BZ) info@maychem.it • www.maychem.it

## Instructions for use

Before performing the cleaning operations, drain and rinse the sludge from the system and replace it with clean water. Connect the flushing pump to the heating circuit. Add Mayline HR plus with a concentration of 1 litre for every 100 litres of heating water. Clean with an external flushing pump for 3 hours, closing all the radiator valves, and clean by opening every single radiator for approx. 15-20 minutes for a individual cleaning of every radiator, starting to clean the furthest radiator. FOR VERY SLUDGY SYSTEMS EXTEND THE APPLICATION TIME (!) to ensure an adequate cleaning, if it is necessary also renew the cleaning solution. At the end, clean the entire system by opening all the radiator valves for a further 60 minutes. AFTER THE CLEANING PROCESS, EMPTY THE HEATING SYSTEM AND RINSE THE SYSTEM WELL WITH CLEAN WATER.

For protecting the cleaned system insert a correct water treatment for the type of system such as Mayline K32, Mayline Protec etc. and install a combined dirt separator preferably with a magnet of at least 10.000 Gauss.

## Important note

The heating system must be free of any additional substance (anti-freeze, self-sealing liquids, film-forming, inhibitors, protectives etc. Professional flushing pumps must be used to ensure an adequate cleaning. FOR VERY SLUDGY SYSTEMS EXTEND THE APPLICATION TIME! To ensure an adequate cleaning, if it is necessary also renew the cleaning solution. Mayline HR plus can NOT be mixed with other chemicals. AFTER THE CLEANING PROCESS, EMPTY THE HEATING SYSTEM AND RINSE THE SYSTEM WELL WITH CLEAN WATER.

After the cleaning process insert a protector for water treatment.

Protect the product from frost!

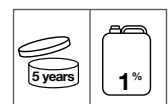
## Mixing proportions

1% (1 litre of Mayline HR Plus for every 100 litres of water).

ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** 3 hours with an external pump, make sure that the cleaning solution circulates on each individual radiator for at least 20 minutes. FOR VERY SLUDGY SYSTEMS EXTEND THE APPLICATION TIME! If it is necessary also renew the cleaning solution.

**Check** Using a conductivity meter to measure the  $\mu\text{S}/\text{cm}$  value of the mains water used and subsequently the water of the solution with the cleaner: the delta value must be approx.  $700\mu\text{S}/\text{cm}$



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline HR

Cleaner for systems with radiators

## Cleaner for heating installations with radiators

Mayline HR is a cleaner with inhibitors for heating systems, to use with the boiler pump or the systems pumps (central heating systems) for frees the circuits and radiators of lime scale deposits, rust and sludge sediments, thereby to restore the full heating efficiency. Mayline HR clean existing systems with sludge problems and for restoring the energetic heating efficiency to older systems.

Mayline HR is suitable for all materials in use such as steel, copper, black iron, aluminium, synthetic and multilayer composite pipes.



code	package
5/MYHR	5 l canister
1/MYHR	1 l (pack of 12 bottles)
2/MYHR	1 l (pack of 2 bottles)



UFI: TS00-G0TD-J008-MD26

### Instructions for use

Before performing the cleaning operations, drain and rinse the sludge from the system and replace it with the clean water. Add Mayline HR with a concentration of 0,5% for low dirty circuits, and 1% for sludgy circuits and turn on the pumps to obtain an optimal mixing.

The application time varies from 2 to 4 days with a flow temperature that must not exceed 50° C, or at room temperature if cleaning is not carried out during a heating season. Make sure that all radiator valves are open and that there are not present blocked valves to ensure an optimal circulation of the heating cleaner.

**AT THE END OF THE CLEANING OPERATION, EMPTY THE HEATING SYSTEM AND RINSE WELL THE SYSTEM THOROUGHLY WITH THE CLEAN WATER.**

For protecting the cleaned system insert a correct water treatment for the type of system such as Mayline K32, Mayline Protec etc. and install a combined dirt separator preferably with a magnet of at least 10.000 Gauss.

### Important note

Do not exceed the flow temperature of 50° C. The heating system must be free from any additional substance and filled with the clean water. Mayline HR cannot be mixed with other chemicals. Follow the instructions for use carefully to avoid damage to pumps and valves. **AFTER THE CLEANING PROCESS, EMPTY THE HEATING SYSTEM AND RINSE WELL THE SYSTEM THOROUGHLY WITH THE CLEAN WATER.** After the cleaning procedure, insert a protector for water treatment.

Protect the product from frost!

### Mixing proportions

0,5% of Mayline HR for low dirty circuits (0,5 litres or every 100 litres of water),

1% of Mayline HR for normal or heavily sludgy circuits (1 litre for every 100 litres of water).

**ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.**

**Application time** From 2 to 4 days with the boiler or system pump, make sure that all the radiator valves are open and not blocked.

**Check** Using a conductivity meter to measure the  $\mu\text{S}/\text{cm}$  value of the mains water used and subsequently the water of the solution with the cleaner: the delta value must be approx. 600 $\mu\text{S}/\text{cm}$



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline CP

PH neutral cleaner for heating systems with radiators

**pH neutral cleaner for heating systems with radiators  
application time from 8 to 10 days**

Mayline CP is a pH neutral cleaner with inhibitors for heating systems, to use with the boiler pump or the systems pumps (central heating systems) for frees the circuits and radiators of lime scale deposits, rust and sludge sediments, thereby to restore the full heating efficiency. Mayline CP clean existing systems with sludge problems and for restoring the energetic heating efficiency to older systems. Mayline CP is suitable for all materials in use such as steel, copper, black iron, aluminium, synthetic and multilayer composite pipes.



**Mayline CP**  
Liquido pulitore per alta temperatura  
Liquido pulitore a pH neutro per impianti di riscaldamento con tempi d'azione da 8 fino a 10 giorni

**PERICOLO**  
Contiene: 0,05% dimetilamminaossido di idrossido. Acido etilidrossico. Composizione (Pig. CE) 444/2004: acqua 99,95%, acido etilidrossico 0,05%.  
Indicazione di pericolo: H318 Provoca gravi lesioni oculari.

**Consigli di prudenza:**  
P201+P202 IN CASO DI CONTATTO CON:  
GLI OCCHI: Indossare occhiali e guanti per proteggerli.  
A: Aggravare le lesioni e irritazione. P280  
Prontamente lavare gli occhi e il viso. P310 Contattare immediatamente un CENTRO ANTIVISCELENTI in un medico.

**UFI: 6C00-Y0CE-0005-9P4V**

Info: 0471.052852 • Fax: 0471.1948339  
Via Negrelli, 15 39100 Bolzano (BZ) info@maychem.it • www.maychem.it

code	package
5/MYCP	5 l canister
1/MYCP	1 l (pack of 12 bottles)
2/MYCP	1 l (pack of 2 bottles)



UFI: 6C00-Y0CE-0005-9P4V

## Instructions for use

Before performing the cleaning operations, drain and rinse the sludge from the system and replace it with the clean water. Add Mayline CP with a concentration 1% and turn on the pumps to obtain an optimal mixing.

The application time varies from 8 to 10 days with a flow temperature that must not exceed 70° C, or at room temperature if cleaning is not carried out during a heating season. Make sure that all radiator valves are open and that there are not present blocked valves to ensure an optimal circulation of the heating cleaner.

**AT THE END OF THE CLEANING OPERATION, EMPTY THE HEATING SYSTEM AND RINSE WELL THE SYSTEM THOROUGHLY WITH THE CLEAN WATER.**

For protecting the cleaned system insert a correct water treatment for the type of system such as Mayline K32, Mayline Protec etc. and install a combined dirt separator preferably with a magnet of at least 10.000 Gauss.

## Important note

Do not exceed the flow temperature of 70° C. The heating system must be free from any additional substance and filled with the clean water. Mayline CP cannot be mixed with other chemicals. **AFTER THE CLEANING PROCESS, EMPTY THE HEATING SYSTEM AND RINSE WELL THE SYSTEM THOROUGHLY WITH THE CLEAN WATER.** After the cleaning procedure, insert a protector for water treatment.

Protect the product from frost!

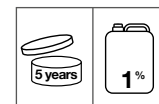
## Mixing proportions

1% (1 litre of Mayline CP for every 100 litres of water).

**ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.**

**Application time** From 8 to 10 days with the boiler or system pump, make sure that all the radiator valves are open and not blocked.

**Check** Using a conductivity meter to measure the µS/cm value of the mains water used and subsequently the water of the solution with the cleaner: the delta value must be approx. 1.100µS/cm



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Mayline CPL

Cleaner for systems with radiators

Long period pH neutral cleaner for heating systems with radiators application time from 30 to 90 days

Mayline CPL is a long term pH neutral cleaner with inhibitors for heating systems, to use with the boiler pump or the systems pumps (central heating systems) for frees the circuits and radiators of lime scale deposits, rust and sludge sediments, thereby to restore the full heating efficiency. Mayline CPL clean existing systems with sludge problems and for restoring the energetic heating efficiency to older systems. Mayline CPL is also suitable for cleaning new heating systems in long terms. Mayline CPL is suitable for all materials in use such as steel, copper, black iron, aluminium, synthetic and multilayer composite pipes.



**Mayline CPL**  
**Liquido pulitore per alta temperatura**  
 Liquido detergente inibito a pH neutro "7"  
 per impianti di riscaldamento nuovi o esistenti,  
 a tempo prolungato da 1 fino a 3 mesi

**PERICOLO**  
 Contiene: Cloruro di sodio, idrossido di sodio, acido ossalico, Composti di Fosforo  
 Questo prodotto è: 1. non infiammabile (H228);  
 2. non tossico (H302);  
 3. irritante (H314);  
 4. nocivo all'ambiente (H410)

**Consigli di protezione**  
 P201/P202, P273, P501

**Maychem**  
 Via Negrelli, 25  
 39100 Bolzano (BZ)

Tel.: 0471/528152 • Fax: 0471/1968339  
 ITSA: 170264850227  
 info@maychem.it • www.maychem.it

Anno di produzione: 2021

1 litro  
 5 litri

code	package
5/MYCPCL	5 l canister
1/MYCPCL	1 l (pack of 12 bottles)
2/MYCPCL	1 l (pack of 2 bottles)

UFI: 6C00-YOCE-000S-9P4V

## Instructions for use

Before performing the cleaning operations, drain and rinse the sludge from the system and replace it with the clean water. Add Mayline CPL with a concentration 1% and turn on the pumps to obtain an optimal mixing.

The application time varies from 30 to 90 days with a flow temperature that must not exceed 70° C, or at room temperature if cleaning is not carried out during a heating season. Make sure that all radiator valves are open and that there are not present blocked valves to ensure an optimal circulation of the heating cleaner.

AT THE END OF THE CLEANING OPERATION, EMPTY THE HEATING SYSTEM AND RINSE WELL THE SYSTEM THOROUGHLY WITH THE CLEAN WATER. For protecting the cleaned system insert a correct water treatment for the type of system such as Mayline K32, Mayline Protec etc. and install a combined dirt separator preferably with a magnet of at least 10.000 Gauss.

## Important note

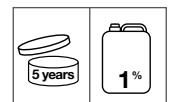
Do not exceed the flow temperature of 70° C. The heating system must be free from any additional substance and filled with the clean water. Mayline CPL cannot be mixed with other chemicals. AFTER THE CLEANING PROCESS, EMPTY THE HEATING SYSTEM AND RINSE WELL THE SYSTEM THOROUGHLY WITH THE CLEAN WATER. After the cleaning procedure, insert a protector for water treatment. Protect the product from frost!

## Mixing proportions

1% (1 litre of Mayline CPL for every 100 litres of water).  
 ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED

**Application time** From 30 to 90 days with the boiler or system pump, make sure that all the radiator valves are open and not blocked.

**Check** Using a conductivity meter to measure the µS/cm value of the mains water used and subsequently the water of the solution with the cleaner: the delta value must be approx. 1.000µS/cm



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
 In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
 Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
 Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Mayline SB

Cleaner for floor heating systems

## Cleaner for radiant heating systems (low temperature systems, floor heating systems, radiant panels etc.)

Mayline SB is a cleaning liquid based on organic compounds of bio-oxidants, which is mainly applied in thermal circuits to remove biological films and biological growth. The product is intended to use only in closed circuits and is not applicable in drinking water systems. Mayline SB is a biodegradable solution to clean low temperature thermal circuits and to eliminate heat exchange problems caused by biological sludge and similar bacterial growths. Mayline SB is suitable for all materials in use such as steel, copper, black iron, aluminium, synthetic and multilayer composite pipes.

code	package
5/MYSB	5 l canister
1/MYSB	1 l (pack of 12 bottles)
2/MYSB	1 l (pack of 2 bottles)



UFI: 1410-HOJY-S007-8RDF



**Mayline SB** Liquido pulitore per bassa temperatura

**Pulitore defangante e biodecapante per impianti di riscaldamento radianti (impianti a bassa temperatura, pannelli radianti ecc.)**

**Descrizione d'uso:** Prima della pulizia realizzare il tergo dell'impianto e sostituire l'acqua d'impianto con acqua di rete pulita. Tutte le azioni di regolazione del circuito devono essere aperte al massimo.

**Lavaggio con la normale tecnica UNI 9505:2012 con prima della pulizia:** Sostituire l'acqua Mayline SB nella proporzione di miscela indicata nel riquadro in fondo al riquadro non superiore al 10% (temperatura di servizio di 40°C) per almeno una settimana e con l'antigelo sempre lasciato accuratamente aperto per 24 ore, facendo circolare la soluzione di pulizia per almeno 2 ore in ogni singola anella. Essenziale il tergo per evitare anche impigriti anche grandi per oltre 2-4 ore. Lavaggio con la normale tecnica UNI 9505:2012 con pompa di tergo esterno (tergo Mayline SB) con concentrazione di miscela indicata nel riquadro in fondo al riquadro non superiore al 10% (temperatura di servizio di 40°C) per almeno una settimana e con l'antigelo sempre lasciato accuratamente aperto per 24 ore, facendo circolare la soluzione di pulizia per almeno 3 ore in ogni singola anella, estendendo i tempi per impianti molto estesi per oltre 2-3 ore. Dopo l'operazione sostituire l'acqua, lasciare la spina recettore negli anelli del circuito per almeno 45-60 minuti con acqua di rete. Per proteggere il modo estremo l'impianto di riscaldamento dagli fenomeni di pulizia, si consiglia l'impiego del liquido protettivo SBA.

**Nota:** Il prodotto non può essere miscelato nella fase operativa con altri additivi chimici. Il trattamento deve essere eseguito con una temperatura d'ambiente da non scendere al di sotto dei 5°C.

**Precauzioni di sicurezza:** Evitare il contatto con la pelle, gli occhi, le mucose e gli indumenti. In caso di contatto con la pelle lavare bene con acqua. Proteggere gli occhi e le mucose con gli occhiali di sicurezza. Evitare il contatto con la pelle e gli indumenti con acqua da altri oggetti di fuori della distribuzione. Conservare fuori dalla portata dei bambini.

**Consigli:** Leggere nel riquadro della norma locale, consultare la scheda di sicurezza.

**Nota di sicurezza:** Se non è indicata la data di produzione.

**PERICOLO**  
Contiene Solfonati e composti aromatici di Tetracolo  
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### Instructions for use

Before performing the cleaning operations, drain and rinse the sludge from the system and replace it with the clean water. Make sure that all flow valves are open and that there are not present blocked valves, otherwise they have to be replaced.

**Cleaning with boiler pump:** Add Mayline SB with a concentration 1% and turn on the pumps to obtain an optimal mixing, ensure that the flow temperature do not exceed 40° C. For an optimal cleaning, close all the valves and leave open only the furthest circuit and clean it in circulation for minimum 2 hours, then close it and proceed with the next one in the same manner. After cleaning every single circuit, open all valves and let it in circulation on the whole heating circuit for 1 hours.

**Cleaning with external flushing pump:** use the same concentration and manner to clean with the external flushing pump, but use an application time of 2 and a half hours for every single circuit, and of 1 and a half hours for the whole heating circuit .

For very sludgy systems or systems with large water volumes extend the application time! After the cleaning process, empty the heating system and rinse well the system with the clean water.

For protecting the cleaned system insert a correct water treatment for radiant heating systems such as Mayline SBA.

### Important note

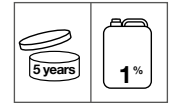
Do not exceed the flow temperature of 40° C. The heating system must be free from any additional substance and filled in with the clean water. Mayline SB can be mixed with Mayline HR, HRplus or Mayline CP if in the same circuit there are the radiators. AFTER THE CLEANING PROCESS, EMPTY THE HEATING SYSTEM AND RINSE WELL THE SYSTEM THOROUGHLY WITH THE CLEAN WATER. After the cleaning procedure, insert a protector for water treatment.

Protect the product from frost!

### Mixing proportions

1% (1 litre of Mayline SB for every 100 litres of water).  
ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** With boiler pump minimum 2 hours for every single circuit and 1 hour for the whole system, with external pump minimum 2 and a half hours for every single circuit and 1 and a half hours for the whole system. For very sludgy systems or systems with large water volumes extend the application time up to 24 hours!



**Security instructions**  
In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

**Disposal**  
For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

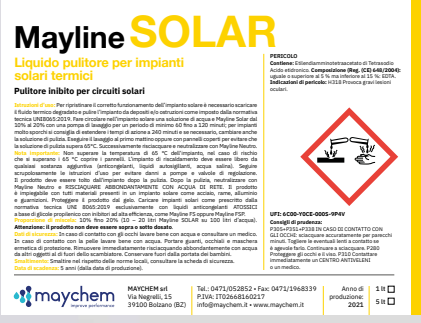
Sealants  
Cleaners and protectors  
Antifreeze agents  
Maintenance  
Water softeners and filters  
Boiler accessories  
Accessories

# Mayline SOLAR

Cleaner for removal degraded heat transfer fluids

**Concentrated cleaner for removal degraded heat transfer fluids, sludge and blockages in thermal solar heating circuits**

Mayline SOLAR is characterized by an alkaline pH. The formula is equipped with specific dispersants developed to eliminate deposits, sediments and sludge formed of degraded heat transfer fluids in any type of installation treated with glycol/water mixtures. Mayline Solar effectively removes the deposits left by the heat transfer fluid due to prolonged exposure to high temperatures. To high temperatures creates a biodegradable processes are triggered such that the thermal fluid darkens, giving rise to phenomena of increased viscosity, formation of solid deposits and reduction of the diameter of the pipes with an increase in acidity that is harmful to the system. With this product the optimal conditions of the system are restored and its life extended as well as making a significant contribution to costs related to maintenance or repairs.



code	package
5/MYSOL	5 l canister1
1/MYSOL	1 l (pack of 12 bottles)



UFI: 6C00-YOCE-000S-9P4V

## Instructions for use

Completely empty the system and use a proper flushing pump to insert the cleaner into the circuit and dilute it as required, for example: 10% for normal sludgy in the heating circuit, 20% to eliminate heavily deposits and sludge from the solar heating circuits. Activate the pump, preventively prepared with the cleaner solution, and keep it in circulation for at least 60 minutes and extend these times up to 4 hours for very sludgy systems. If necessary, also renew the cleaning solution. After the cleaning process, empty the system and treat it with Mayline NEUTRO for 20minutes, then rinse the system well with the clean water.

## Important note

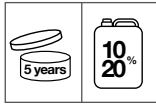
Do not exceed the system temperature of 65 ° C, in the case of a solar thermal system where it can exceed 65 ° C, cover the solar panels. Mayline SOLAR cannot be mixed with other chemicals. Follow the instructions for use carefully to avoid damage to pumps and control valves. The product must be removed from the system after cleaning. After cleaning, neutralize with Mayline Neutro and RINSE WELL WITH THE CLEAN WATER. The product can be used with all materials present in a solar thermal system such as steel, copper, aluminum and gaskets. Load solar systems exclusively with NON-TOXIC anti-freeze liquids based on propylene glycol with high efficient inhibitors, such as Mayline FS or Mayline FSP. Protect the product from frost.

## Mixing proportions

10 - 20% (10 - 20 litres of Mayline SOLAR for every 100litres of water).  
**ATTENTION: THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.**

**Application time** From 60 to 120 minutes with external flushing pump. For heavily dirty systems change the cleaning solution and extend the time to 240 minutes of application.

**Check** Using a conductivity meter to measure the  $\mu\text{S}/\text{cm}$  value of the mains water used and subsequently the water of the solution with the cleaner: the delta value must be approx.  $6.000\mu\text{S}/\text{cm}$



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline PVS

Special cleaner for surfaces of solar panels

## High concentrated special cleaner for surfaces of photovoltaic- and thermal solar panels

Mayline PVS is a 100% active concentrate and has been developed specifically for cleaning the sensitive glasses of photovoltaic modules and solar thermal panels, but also especially designed to prevent damages as is the case with standard cleaning agents.

Mayline PVS cleans stubborn soiling such as resin, soot, bird droppings, oil and grease. Suitable for all types of solar modules as SiGe glass, molded glass, flat glass, diffusing glass etc.

A cleaning of photovoltaic modules and solar thermal collectors is recommended every 6 months to maintain their best efficiency. Mayline PVS releases a protective film creating a smooth surface, to avoid that settle again of soiling, and also eases the subsequent cleaning operations.

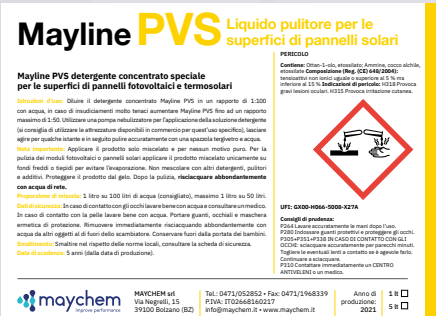
Mayline PVS cleans thoroughly the panels from:

- Oily and greasy sediments
- Soot
- Resins of plants
- Algae, moss and pollen
- Bird droppings

code	package
5/MYPVS	5 l canister1
1/MYPVS	1 l (pack of 12 bottles)
2/MYPVS	1 l (pack of 2 bottles)



UFI: GX00-H066-5008-X27A



### Instructions for use

Dilute Mayline PVS concentrated detergent in a ratio of 1: 100 with water, in case of very stubborn soiling increase Mayline PVS up to a maximum ratio of 1:50. Use a nebulizer pump to apply the cleaning solution (we recommend using commercially available equipment for this specific use), use soft rotation brushes with long handle to remove dirt, then leave still to act the cleaning solution for a few moments and then rinse thoroughly with clean water.

If necessary, repeat the cleaning process for very heavily soilings on the glass surfaces.

### Important note

Apply the cleaner Mayline PVS only diluted from 1 to 2 litres on 100 litres water - NEVER applicate it in concentrated form to prevent damages! To clean photovoltaic modules or solar panels, apply the cleaning solution only on cold or lukewarm surfaces to avoid evaporation and to prevent so eventually stains on the surfaces. Do not mix with other detergents, additives or other chemicals.

Protect the product from frost.

After cleaning, RINSE THOROUGHLY WITH THE CLEAN WATER.

### Mixing proportions

1 litre on 100 litres of water (recommended), MAX. 1 litre on 50 litres.  
NEVER applicate stronger dilutions to prevent damages!

**Application time** Nebulize the cleaning solution with a spraying pump, use soft rotation brushes with long handle to remove the dirt, leave to act still the cleaning solution for a few minutes and then rinse thoroughly with the clean water.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline S26

Descaler for tap water installations

Descaler to remove encrustations in tap water installations and heat exchangers for hot water

Mayline S26 is a concentrated descaler which eliminates lime scales and rust deposits from drinking water circuits. A chemical treatment with Mayline S26 is the safest and fastest way to restore a warm or cold tap water circuit full functionality. Mayline S26 can be used to remove lime scale and rust from pipes, heat exchangers and boilers. Mayline S26 can be employed in conjunction with all commonly used materials, such as steel, copper, brass and galvanised materials. It contains high level of inhibitors which protect all the components against the aggressive action of the descaler during the chemical cleaning process. The product is also suitable for cleaning pumps and valves, above all for cleaning cooling towers without interrupting their function. Mayline S26 is a slightly foaming liquid to be diluted with water, it dissolves lime scale and rust deposits. The reaction increases if the descaler is heated to a max. temperature of 45 °C. (recommended 30-40°C.)



code	package
5/MYS26	5 l canister1
1/MYS26	1 l (pack of 12 bottles)



UFI: F110-00VK-F00R-MDTD

## Instructions for use

Completely empty the system to be descaled. Use a proper flushing pump to insert the descaler into the circuit and dilute it as required, for example:

- 10% for regular cleaning or maintenance with low encrustations,
- 20 or 25% for cleaning or maintenance with stronger lime scale deposits,
- 15% for heat exchangers in aluminium,
- 25% for all other heat exchangers.

Activate the pump, preventively prepared with the descaling solution, and keep it in circulation for at least 30 minutes. For heavily encrusted systems extend the application time up to 120 minutes. If the cleaning solution is consumed, add further descaler in order to continue with the chemical cleaning process. Once the cleaning process has been completed, the liquid must be drained from the system. For neutralizing the descaled treated components use Mayline Neutro and leave in circulation for 20 minutes, then proceed to rinse it well with clean water.

## Important note

The system's temperature must not exceed 45 °C if it is filled with Mayline S26. Mayline S26 cannot be mixed with other chemicals. Follow our instructions scrupulously in order to avoid damaging of the components. After the cleaning process has been completed, the product must be removed from the system and the descaled treated components must be neutralized with Mayline Neutro and then rinse thoroughly with the clean water. Protect the product from frost.

## Mixing proportions

10-25% (10 - 25 litres of Mayline S26 for every 100litres of water), recommended 15%.  
For aluminium components use max. 15%, all other materials use max. 25%.

**Application time** 1-4 hours with 10% solutions; 30-60 minutes with 20-25% solutions;  
30-60 minutes at 15% for aluminium and its alloys.



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

## Disposal

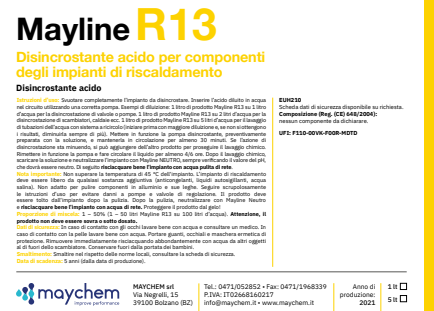
For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline R13

Descaler for heating installations

## Descaler to remove encrustations in heating installations and there heat exchangers

Mayline R13 is a concentrated descaler which eliminates lime scales and rust deposits from heating installations and there heat exchangers. A chemical treatment with Mayline R13 is the safest and fastest way to restore a warm or cold tap water circuit full functionality. Mayline R13 can be used to remove lime scale and rust from pipes, heat exchangers and boilers. The product is also suitable for cleaning pumps and valves, without interrupting their function. Mayline R13 can be employed in conjunction with all commonly used materials, such as steel, copper, brass and galvanised materials. It contains high levels of inhibitors which protect all the components against the aggressive action of the descaler during the chemical cleaning process. Mayline R13 is a slightly foaming liquid to be diluted with water, it dissolves lime scale and rust deposits. The reaction increases if the descaler is heated to a max. temperature of 45 °C. (recommended 30-40°C.)



code	package
5/MYR13	5 l canister1
1/MYR13	1 l (pack of 12 bottles)



UFI: F110-00VK-F00R-MDTD

### Instructions for use

Completely empty the system to be descaled. Insert the descaler diluted in water into the circuit using a suitable washing pump.

Examples of dilution:

50% of Mayline R13 for the descaling of valves or pumps;

25-50% of Mayline R13 for descaling of exchangers and boilers etc.

10-20% of Mayline R13 for washing heating pipes with recirculation system (start first with less dilution and, if the results are not obtained, increase it more and more).

Run the descaling pump prepared with the solution, and keep it circulating for at least 30 minutes, extend if it is necessary up to 60 minutes.

To descale heating pipes with recirculation system, leave in circulation for 4 to 6 hours.

If the descaling action is diminishing, you can add Mayline R13 to continue. After chemical descaling, drain the solution and neutralize the system and components with Mayline NEUTRO. Then RINSE THE SYSTEM WELL WITH THE CLEAN WATER.

### Important note

The system's temperature must not exceed 45 °C if it is filled with Mayline R13. Mayline R13 cannot be mixed with other chemicals.

Follow our instructions scrupulously in order to avoid damaging of the components. Not suitable for descaling components in aluminium and its alloys. After the descaling process has been completed, the product must be removed from the system and the descaled treated components must be neutralized with Mayline Neutro and then rinse thoroughly with the clean water. Protect the product from frost.

### Mixing proportions

10 – 50% (10 – 50 litres of Mayline R13 for every 100 litres of water)

ATTENTION: THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

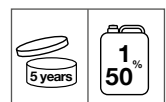
**Application time** 4-6 hours with 10-20% solutions; 30-60 minutes with 25-50% solutions;  
NOT SUITABLE FOR ALUMINIUM

### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Mayline Puliboiler

Concentrated acid for heat exchangers

Highly concentrated acid against lime scale, sludge and rust deposits in heat exchangers

Mayline Puliboiler is a highly concentrated acid which eliminates all types of deposits from heating components and heat exchangers.

Mayline Puliboiler is designed for using as chemical acid cleaner in all heating systems components and can be employed in conjunction with all commonly used materials, such as steel, copper, brass and galvanised materials, excluding aluminium and its alloys.



code	package
5/MYPULI	5 l canister



UFI: QV00-00GS-U00R-9QN8

## Instructions for use

Mayline Puliboiler is a slightly foaming acid with a pH value of less than 1, to be diluted with water in proportions from 10 to 20%. The reaction increases by increasing the temperature - but never exceeding 45° C. Fill the acid solution dilute it as needed from 10 to 20% into the encrusted component using a proper flushing pump for acid cleanings. Start up the flushing pump and keep it in circulation for at least 30 minutes. It is important to check the pH value, the pH value must always be lower than 2 for guarantee the cleaning efficiency. If the value is more than 2, the colour changes in azure. This colour change indicate to replace the solution. Always pay attention of the pH value or the colour change. After chemical cleaning, the product must be discharged from the system, properly neutralized with Mayline Neutro, always ensure to reach a neutral pH value. The acid treated system must be neutralized with Mayline Neutro for 20 minutes and then thoroughly rinsed with the mains water. For waste disposal respect the laws in force in your country.

## Important note

The system's temperature must not exceed 45 °C if it is filled in with Mayline Puliboiler. Mayline Puliboiler cannot be mixed with other chemicals. Follow our instructions scrupulously in order to avoid damage of the components. Not suitable for components in aluminium and its alloys. After the acid cleaning process has been completed, the product must be removed from the system and the acid treated components must be neutralized with Mayline Neutro and then rinse thoroughly with the clean water. For waste disposal respect the laws in force in your country. Protect the product from frost.

## Mixing proportions

10 - 20% (10 - 20 litres of Mayline Puliboiler for every 100 litres of water).  
ATTENTION: THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Application time** 30 minutes with acid solutions from 10 to MAX. 20%

**Check pH value** must always be lower than 2 for guarantee the cleaning efficiency. If the value is more than 2, the colour changes in azure and the acid solution must be replaced.



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Mayline Disoforte

Drain cleaner

Highly efficient cleaner for shower or sink drains, removes blockages of hair, soap scum, etc.

Mayline DISOFORTE is a highly efficient unblocking agent which eliminates the organic substances that obstruct the drains. The product does not attack the PVC, the gaskets and metals of which the pipes are normally formed. Mayline DISOFORTE in a few moments removes paper, cardboard, vegetables, meat, bones, fats and all materials of organic origin.

**PRODUCT FOR PROFESSIONAL USE ONLY!**



code	package
1/MYDISOFORTE	1 l (pack of 12 bottles)



UFI: TH00-Y0R6-M00S-MCA0

## Instructions for use

MAYLINE DISOFORTE acts deeply by removing obstructions, even in the presence of the stagnant water. In this case we recommend to add the drain cleaner MAYLINE DISOFORTE very slowly, bringing the product closer to the stagnant water surface without ever exceeding the recommended dosages.

On small drains, slowly pour 200 to 250 ml of Mayline DISOFORTE, wait for about 5 minutes, then let the water run and if it is necessary, repeat the operation. On medium and large drains, slowly pour from 250 ml to 500 ml of product, wait for 5 minutes, let the water run abundantly.

It is advisable to periodically use a small amount of Mayline DISOFORTE to eliminate bad odors and keep drains free.

## Important note

FOR SAFETY CONSIDERATIONS REQUIRE PROTECTIVE GLOVES AND EYE PROTECTION!

Mayline DISOFORTE cannot be mixed with other chemicals! Therefore it must not be used in drains where other drain cleaner have been previously introduced! Avoid contact with resin and polycarbonate materials and do not use on copper and lead drains. Contact of the product with steel and / or chromed parts can generate blackening. After cleaning, RINSE THOROUGHLY WITH THE TAP WATER. Protect the product from frost.

## Mixing proportions

DO NOT DILUTE. The product comes ready for use.

Dosage to use: small drains 200 to 250 ml, medium and large drains, 250 ml to 500 ml

**Application time** Pour slowly 200 to 500ml of Mayline Disoforte in the drain and let it act for at least 5 minutes.



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Mayline Neutro

Neutralizing liquid

Neutralizing liquid to neutralize the circuits treated with descalers, acids and bases

Mayline Neutro is a neutralising liquid which eliminates all basic or acidic residues. The product is based on special silicates and is suitable for neutralising drinking water systems in compliance with the classifications of the current EEC lists.

Thanks to its new formula, no more long rising are needed for neutralizing the circuits. Mayline Neutro is designed to guarantee total system neutralisation for acids and bases.

It is recommended to use Mayline Neutro for removing residual acids or bases after cleaning or maintenance operations.

code	package
5/MYNT0	5 l canister
1/MYNT0	1 l (pack of 12 bottles)



## Mayline Neutro

Liquido neutralizzante

Neutralizzante per scambiatori di calore, circuiti sanitari e circuiti solari

**Indicazioni d'uso:** Mayline Neutro viene utilizzato dopo il lavaggio chimico a base di prodotti acidi o disincrostanti.  
**Neutralizzazione di scambiatori di calore:** Svuotare il circuito dello scambiatore e togliere tutto l'acqua usata per la pulizia. Inserire Mayline Neutro mescolato con acqua e farlo circolare all'interno per circa 20 minuti. Scaricare il circuito e risciacquare con acqua di rete, di seguito controllare il valore pH che deve risultare neutro.  
**Neutralizzazione dell'impianto sanitario:** Svuotare l'impianto e togliere la soluzione disincrostante. Inserire Mayline Neutro mescolato con acqua e farlo circolare all'interno per circa 20 minuti. Scaricare l'impianto e fare scorrere l'acqua per circa 3-5 minuti, di seguito controllare il valore pH che deve risultare neutro.  
**Neutralizzazione dell'impianto solare:** Svuotare l'impianto e togliere la soluzione di pulizia. Inserire Mayline Neutro mescolato con acqua e farlo circolare all'interno per circa 20 minuti. Scaricare l'impianto e risciacquare con acqua di rete per 5 minuti, di seguito controllare il valore pH che deve risultare neutro.  
**Nota importante:** Utilizzare esclusivamente con la concentrazione descritta. Proteggere il prodotto dal gelo.  
 Dopo la neutralizzazione, RISCACCIARE ABBONDANTEMENTE CON ACQUA DI RETE.  
**Attenzione:** In caso di contatto con gli occhi lavare bene con acqua e consultare un medico. In caso di contatto con la pelle lavare bene con acqua. Portare guanti e occhiali di protezione. Rimuovere immediatamente con acqua da oggetti come piastrelle, pavimenti, lavandini, ecc. Conservare fuori dalla portata dei bambini.  
**Smaltimento:** Smaltire nel rispetto delle norme locali, consultare la scheda informativa.  
**Proprietà di miscela:** 5% (5 litri Mayline Neutro con 20 litri d'acqua). **Attenzione, il prodotto non deve essere sovra o sotto dosato.**  
 Data di scadenza: 5 anni dalla data di produzione.

**maychem** MAYCHEM s.r.l.  
Via Napoli, 15  
39100 Bolzano (BZ)  
Tel.: 0471/052852 - Fax: 0471/1968339  
E-MAIL: info@maychem.it - www.maychem.it  
Anno di  
pubblicazione:  
2021

## Instructions for use

Mayline Neutro is used after chemical cleaning based on descaler, acids or bases. Usually the cleaning acids act with a pH value of 1 (highly acidic), descaler with a pH value of 3 (slightly acidic), solar thermal cleaner with a pH value of 8-9 (slightly bases), so after cleaning it must be ensured that there are no residues or traces of these cleaners in the system.

### Neutralization of heating components with highly concentrated acids:

Empty the system and remove all the acid used for cleaning. Insert Mayline Neutro to 5% mixed with water and let it circulate inside for about 20 minutes. Drain the system, rinse it with the water for about 3-5 minutes and check the pH value that must be about 7.

### Neutralization of heating components with descaler:

Empty the system and remove the descaler solution. Insert Mayline Neutro to 5% mixed with the water and let it circulate inside for about 10 minutes. Drain the system and rinse with the water for about 3-5 minutes and check the pH value that must be about 7.

### Neutralization of heating components with solar cleaner:

Empty the system and remove the cleaner solution. Insert Mayline Neutro to 5% mixed with the water and let it circulate inside for about 20 minutes. Drain the system and rinse with the water for about 3-5 minutes and check the pH value that must be about 7.

## Important note

Use only with the dilution described. Mayline NEUTRO cannot be mixed with other chemicals. After neutralization, always rinse with the clean water as well. Protect the product from frost.

## Mixing proportions

5% (5 litres of Mayline Neutral for every 100 litres of water).  
**ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.**

**Application time** Leave in circulation a 5% Mayline Neutral solution for at least 10-20 minutes.

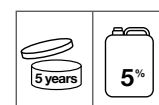
**Check** Check the pH value after the neutralization phase, which must be about 7.

## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
 In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
 Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
 Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Corrosion protection for heating systems

## PROTECTION AGAINST SLUDGE, DEPOSITS AND CORROSION

Accessories

Boiler accessories

Water softeners and filters

Maintenance

Antifreeze agents

Cleaners and protectors

Sealants

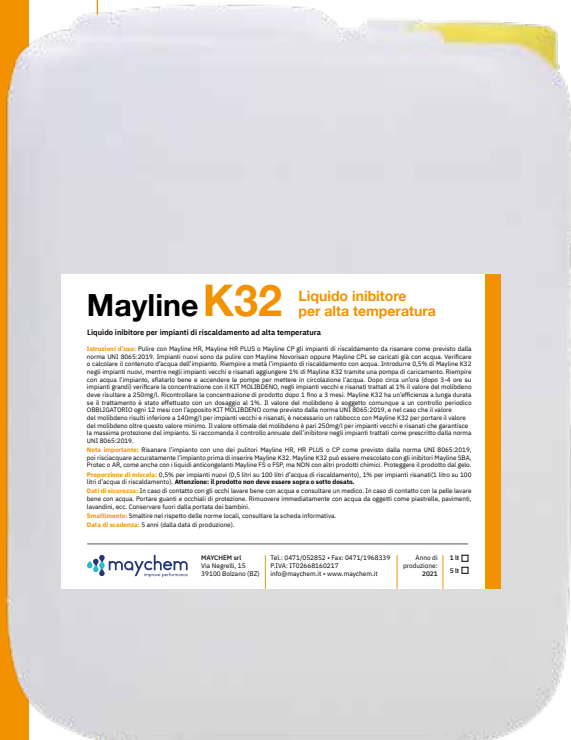
# Mayline K32

Protective for heating circuits with radiators

## Protective liquid with molybdenum based corrosion inhibitors for heating circuits with radiators

Mayline K32 is a protective liquid with molybdenum based corrosion inhibitors for heating circuits and central heating systems with radiators, which protects heating components in steel, iron, copper, aluminium and synthetic materials in heating systems against corrosion and scale and sludge formations.

Mayline K32 create a protective film on all parts and solves oxygen diffusion problems with an effective dispersion.



code	package
5/MYK32	5 l canister
1/MYK32	1 l (pack of 12 bottles)
2/MYK32	1 l (pack of 2 bottles)



### Instructions for use

Drain the sludge from the circuit and fill it with the clean water, then use a heating system cleaner as Mayline HR, Mayline HR PLUS or Mayline CP. New systems must be cleaned with Mayline Novorisan or Mayline CPL if they are already loaded with water.

Calculate the water content of the system for the correct amount of Mayline K32. Half fill the heating system with water. Add 0.5% of Mayline K32 in new systems, while in cleaned and restored systems add 1% of Mayline K32. Then fill the circuit completely with water, vent it well and turn on the pumps to put the water into circulation. After about an hour (after 3-4 hours on large systems) check the concentration with the MOLYBDENUM KIT, in circuits treated at 1% the molybdenum value must be 250mg/l. Recheck the molybdenum concentration after 1 to 3 months. Mayline K32 has a long-lasting efficiency if the treatment was carried out with a 1% dosage.

The molybdenum value is in any case subject to a MANDATORY PERIODIC CHECK every 12 months with the appropriate MOLYBDENUM KIT. In the event that the molybdenum value is lower than 140mg/l, it is necessary to refill with Mayline K32 to bring the molybdenum value beyond this minimum value. The optimal value of molybdenum is equal to 200-250mg/l for cleaned and restored systems, which guarantees a maximum protection of the system.

It is recommended that the molybdenum value is checked annually and to be refilled if necessary!

### Important note

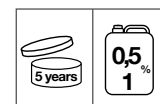
Restore the system with one of the heating system cleaners as Mayline HR, HR PLUS or CP cleaners, then thoroughly rinse the system with the clean water before inserting Mayline K32.

Mayline K32 can be mixed with the protective agents Mayline SBA or AR, as well as with Mayline FS or FSP anti-freeze liquids, but NOT with other chemicals. Protect the product from frost.

### Mixing proportions

0.5% for new systems, 1% for cleaned and restored systems (0.5-1 liter on 100 liters of heating water).

ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.



**Check** After filling and good circulation of the protective agent in the heating system, check the molybdenum value with the appropriate test kit: the dosage at 1% corresponds to approx. 250 mg/l which must never be less than 140 mg/l, if necessary, refill it. The MANDATORY CHECK of the inhibitor is to be carried out at least every 12 months to ensure proper functioning.

### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline SBA

Protective for floor heating systems

Protective liquid as “triple formulation” with molybdenum based corrosion inhibitors and bio-blocker for floor heating systems and mixed heating systems

Mayline SBA is an inhibitor liquid with an exclusive leading combination of inhibitors for radiant systems (for example floor heating systems) or mixed heating systems against corrosion and encrustation problems, with the addition of a non-foaming, chlorine-free bio-dispersant, to avoid microbacterial formation in heating circuits that have temperatures below 55 ° C. Mayline SBA prevents the formation of corrosion and sludge, prevents fouling and gas formation, and prevents the growth of microbacterial colonies without altering the pH. The product can be used with all materials such as iron, steel, copper (and its alloys), aluminum (and its alloys), synthetic materials (e.g. PEX pipe) and mixed materials (e.g. multilayer pipe).

code	package
5/MYSBA	5 l canister
1/MYSBA	1 l (pack of 12 bottles)
2/MYSBA	1 l (pack of 2 bottles)



## Instructions for use

Drain the sludge from the circuit and fill it with the clean water, then use a heating system cleaner as Mayline SB for floor heating system, or a mix of Mayline SB and Mayline HR for a mixed system with radiators. New systems must be cleaned with Mayline SB if they are already loaded with water.

Calculate the water content of the system for the correct amount of Mayline SBA. Half fill the heating system with water. Add 1% of Mayline SBA in cleaned and restored floor heating systems. Then fill the circuit completely with water, vent it well and turn on the pumps to put the water into circulation. After about an hour (after 3-4 hours on large systems) check the concentration with the MOLYBDENUM KIT, in circuits treated at 1% the molybdenum value must be 100mg/l. Recheck the molybdenum concentration after 1 to 3 months. In the event that the molybdenum value is lower than 80mg/l, it is necessary to refill with Mayline SBA to bring the molybdenum value beyond this minimum value. The optimal value of molybdenum is equal to 100mg/l for cleaned and restored systems, which guarantees a maximum protection of the system. For mixed heating systems such as floor heating system combined with radiators use 2% of Mayline SBA, with a concentration of the molybdenum value to 200mg/l. In the case of a molybdenum value check there is lower than 160mg/l, it is necessary to refill Mayline SBA.

It is recommended that the molybdenum value is checked annually and to be refilled if necessary!

## Important note

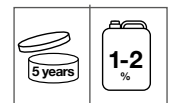
Restore the system with the floor heating system cleaner Mayline SB, or a mix of Mayline SB and Mayline HR for mixed systems, then thoroughly rinse the system with the clean water before inserting Mayline SBA. Protect the product from frost.

Mayline SBA can be mixed with the protective agents Mayline K32, Protec or AR, but NOT with other chemicals or antifreeze agents.

## Mixing proportions

For floor heating systems use 1% (1litre of Mayline SBA on 100lt of water)

For mixed systems use 2% (2 litres Mayline SBA on 100lt of water)



**Check** After filling and good circulation of the protective agent in the heating system, check the molybdenum value with the appropriate test kit: the dosage at 1% corresponds to approx. 100 mg/l which must never be less than 80 mg/l, if necessary, refill it. The MANDATORY CHECK of the inhibitor is to be carried out at least every 12 months to ensure proper functioning.

## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline PROTEC

Protective for heating circuits with radiators

Protective liquid with fosfate-molybdenum corrosion inhibitors for heating circuits with radiators

Mayline PROTEC is an fosfate-molybdenum based inhibitor liquid that protects heating systems with components in steel, copper, brass and aluminum, to protect high temperature heating systems from corrosion and encrusting problems, creating a protective patina on all parts. Mayline Protec protects all materials used such as iron, steel, copper (and its alloys), aluminum (and its alloys), synthetic materials (eg PEX pipe) and mixed materials (eg multilayer pipe).

## Mayline PROTEC

Liquido inibitore per alta temperatura

Liquido inibitore per impianti di riscaldamento a radiatori

**Intenzioni d'uso:** Pulire con Mayline HR, Mayline HR PLUS o Mayline CP gli impianti di riscaldamento da ristagno come previsto dalla norma UNI 8065:2019. Impianti nuovi o con da pulire con Mayline Novorisan oppure Mayline CPL se carichi già con acqua. Riempire e rinfrescare l'impianto di riscaldamento con acqua. Introdurre la quantità necessaria di prodotto tramite una pompa di caricamento. Riempire con acqua l'impianto, sfruttarlo bene e accendere le pompe per mettere in circolazione l'acqua. Controllare il valore pH (dopo circa 10 minuti, il valore deve essere tra 8,5 e 9, altrimenti è necessario aggiungere Mayline Protec) verificare la concentrazione con il KIT MOLYBDENUM, negli impianti trattati al 1% il valore del molybdeno deve risultare a 150mg/l. Ricontrollare il valore dopo 3 mesi e riempire nuovamente l'impianto con acqua e liquido inibitore Mayline Protec. In caso di necessità, scaricare l'acqua dell'impianto per eliminare eventuali residui di depositi. Riempire nuovamente l'impianto con acqua e ridosare il liquido inibitore Mayline Protec. Si raccomanda il controllo annuale dell'inibitore negli impianti trattati come prescritto dalla norma UNI 8065:2019.

**Nota importante:** Riempire l'impianto con uno dei detersivi Mayline HR, HR PLUS o CP come previsto dalla norma UNI 8065:2019, poi riacquare accuratamente l'impianto prima di inserire Mayline Protec. Mayline Protec può essere miscelato con liquidi antigelanti Mayline FS o FSP, come anche con gli inibitori Mayline K32 o AR, ma NON con altri prodotti chimici. Proteggere il prodotto dal gelo.

**Preparazione di miscela:** 1% (1 litro Mayline PROTEC su 100 litri d'acqua). **Attenzione: il prodotto non deve essere sopra o sotto zero.**

**Dati di sicurezza:** In caso di contatto con gli occhi lavare bene con acqua e consultare un medico. In caso di contatto con la pelle lavare bene con acqua. Portare guanti e occhiali di protezione. Rimuovere immediatamente con acqua da oggetti come pavimenti, pavimenti, lavandini, ecc. Conservare fuori dalla portata dei bambini.

**Avvertimento:** Osservare nel rispetto delle norme locali, consultare la scheda informativa.

**Data di scadenza:** 5 anni (dalla data di produzione).

maychem  
MAYCHEM srl  
Via Negrelli, 15  
39100 Bolzano (BZ)

Tel.: 0471.952852 • Fax: 0471.2968339  
P. IVA: IT02646900237  
info@maychem.it • www.maychem.it

Anno di produzione: 2021  
S 18 □  
S 18 □

code	package
1/MYPTEC	1 l (pack of 12 bottles)



## Instructions for use

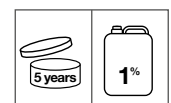
Completely empty the circuit from sludge and load with the clean water, then use a heating system cleaner as Mayline HR, Mayline HR PLUS or Mayline CP. New systems must be cleaned with Mayline Novorisan or Mayline CPL if they are already filled with water. Calculate the water content of the system for the correct amount of Mayline Protec. Add 1% of Mayline PROTEC in new systems or in cleaned and restored heating systems. Then fill the circuit completely with water, vent it well and turn on the pumps to put the water into circulation. Check the pH value after about 10 minutes, the value must be between 8.5 and 9, otherwise Mayline Protec must be added. After about an hour (after 3-4 hours in large systems) check the concentration with the MOLYBDENUM KIT, in circuits treated at 1% the molybdenum value must be 150mg/l. Recheck the molybdenum concentration after 1 to 3 months and refill Mayline Protec if the value is less than 140 mg/l. It is recommended that the molybdenum value is checked any 6 months and to be refilled if necessary!

## Important note

Restore the system with a cleaner such as Mayline HR, HR PLUS or CP, then thoroughly rinse the system before inserting Mayline Protec. Mayline Protec can be mixed with Mayline FS or FSP anti-freeze liquids, but NOT with other chemicals. Protect the product from frost.

## Mixing proportions

1% for cleaned and restored systems (1 liter on 100 liters of heating water).  
ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.



**Check** After filling and good circulation of the protective agent in the heating system, check the molybdenum value with the appropriate test kit: the dosage at 1% corresponds to approx. 150 mg/l which must never be less than 140 mg/l, if necessary, refill it. The MANDATORY CHECK of the inhibitor is to be carried out at least every 6 months to ensure proper functioning.

## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline AR

Protective additive to noise reducing

## Protective additive to noise reducing in heating circuits with aluminum radiators

Mayline AR liquid is specifically formulated to eliminate noises (such as gurgling) caused by the formation of air in heating systems, boilers or aluminum radiators. Mayline AR remains in the system with the prevention to eliminate the formation of gas and thus reducing noise. Mayline AR restores the efficiency of the system with air formation problems. Before applying Mayline AR it is necessary to check if the noise problems are not caused by an unsuitable system geometrie or by damaged or heavily encrusted elements. Suitable for adding in new or restored, cleaned heating systems.



code	package
1/MYAR	1 l (pack of 12 bottles)
2/MYAR	1 l (pack of 2 bottles)



### Instructions for use

Check if the noise problems are not caused by an unsuitable system geometry or by damaged or heavily encrusted elements. If it is necessary clean the heating systems with Mayline HR, Mayline HR PLUS or Mayline CP. New systems must be cleaned with Mayline Novorisan or Mayline CPL if they already loaded with water. Mayline AR must be combined with protective liquid such as Mayline K32 or Mayline SBA.

Check or calculate the water content of the system. Add 1% of Mayline AR noise protection, vent if it is necessary, and turn on the pumps to put the water into circulation. After about an hour, check the concentration with the MOLYBDENUM KIT:

In the systems previously treated with Mayline K32 or Mayline SBA, the molybdenum value should be increased up to 150mg/l (e.g. heating system treated with Mayline SBA to 1% with a molybdenum value of 100 mg/l, with an addition of 1% Mayline AR, with a molybdenum value of 150 mg/l, the total molybdenum value must be 250mg/l).

### Important note

Check if the noise problems are not caused by an unsuitable system geometry or by damaged or heavily encrusted elements. If it is necessary clean the heating system. Mayline AR must be combined with the protective liquid such as Mayline K32 or Mayline SBA. Mayline AR can be mixed with Mayline K32 or SBA, but NOT with other chemicals or anti-freeze liquids. Protect the product from frost.

### Mixing proportions

1% (1 liter on 100 liters of heating water).

ATTENTION! THE PRODUCT MUST NOT BE OVER OR UNDER DOSED.

**Check** Mayline AR must be combined with the protective liquid such as Mayline K32 or Mayline SBA. In the systems previously treated with Mayline K32 or Mayline SBA, the molybdenum value should be increased up to 150mg/l.

### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

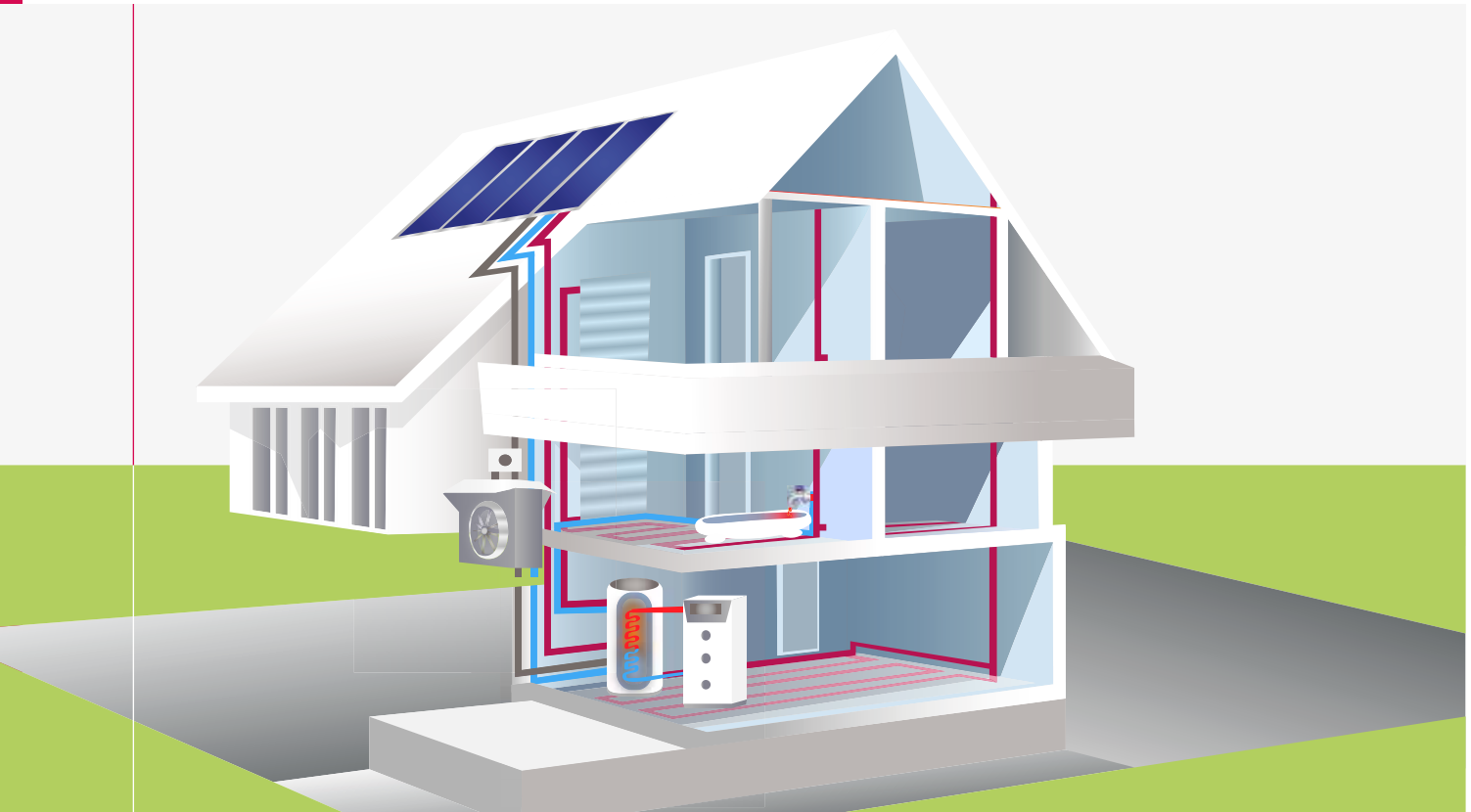






# Mayline

## Antifreeze agents



### Inhibited NON-TOXIC propylene glycol based antifreeze for solar- and geothermal systems

#### Mayline FS

dilution at 25% Vol.	protection at - 10 °C
dilution at 32% Vol.	protection at - 15 °C
dilution at 40% Vol.	protection at - 20 °C
dilution at 47% Vol.	protection at - 25 °C

### Inhibited NON-TOXIC ready-to-use propylene glycol based heat transfer fluid for solar- and geothermal systems

#### Mayline FSP15

protection at - 15 °C

#### Mayline FSP25

protection at - 25 °C

### Inhibited ethylene glycol based antifreeze for cooling and heating systems

#### Mayline XS

dilution at 18% Vol.	protection at - 9 °C
dilution at 30% Vol.	protection at - 17 °C
dilution at 40% Vol.	protection at - 26 °C
dilution at 50% Vol.	protection at - 38 °C

### Inhibited diethylene glycol based antifreeze for cooling and heating systems

#### Mayline FSR

dilution at 25% Vol.	protection at - 10 °C
dilution at 32% Vol.	protection at - 15 °C
dilution at 40% Vol.	protection at - 20 °C
dilution at 47% Vol.	protection at - 25 °C

# Mayline FS

Antifreeze agent

## Inhibited NON-TOXIC propylene glycol based antifreeze for solar- and geothermal systems

Mayline FS is a high performing, non-toxic antifreeze liquid based on propylene glycol, free from nitrites, amines and phosphates, silicates and borates, combined with a protective package of inhibitors.

This specific formulation avoids the formation of rust and corrosion on all materials present in solar- or geothermal systems such as iron, steel, copper (and its alloys), aluminium (and its alloys), synthetic materials (eg PEX pipe) and mixed materials (eg multilayer pipe) and protects too gaskets and seals.



### Mayline FS Liquido anticongelante

Liquido anticongelante atossico e protettivo a base di glicole propilenico ad alte prestazioni

**Indicazioni d'uso:** Sciolgere e miscelare con un contatore il contenuto d'acqua dell'impianto. Riempire nuovamente l'impianto con acqua fino a metà. Introdurre con una pompa di circolazione la quantità necessaria di liquido anticongelante Mayline FS. Ripetere completamente l'operazione con acqua e diluente. Il contenuto dell'anticongelante deve essere controllato dopo 2 ore di circolazione. L'apparecchio di controllo deve misurare il contenuto di glicole propilenico. Si raccomanda il controllo annuale degli impianti trattati con liquidi anticongelanti come prescritto dalla norma UNI EN16245:2015. Controllare il valore pH che non deve essere inferiore a 7,5 e verificare i gradi di protezione contro il gelo con un rifrattometro per glicole propilenico.

#### Preparazione di miscela:

Quantità di anticongelante (%vol.)	Protezione fino a
18%	-6°C
25%	-10°C
32%	-15°C
40%	-20°C
47%	-25°C

**Nota importante:** L'impianto non deve contenere sostanze aggressive come acidi, liquidi, olii, anticongelanti o inibitori. Seguire scrupolosamente le istruzioni non si esenti danni a pompe e valvole di regolazione. Chiedere il prodotto in rapporto volumetrico come indicato nella tabella e miscelare fortemente.

**Dati di sicurezza:** In caso di contatto con gli occhi lavare bene con acqua e consultare un medico. In caso di contatto con la pelle lavare bene con acqua. Portare guanti e occhiali di protezione. Rimuovere immediatamente con acqua da oggetti come piastrelle, pavimenti, lavandini, ecc. Conservare fuori dalla portata dei bambini.

**Smaltimento:** Smaltire nel rispetto delle norme locali, consultare la scheda informativa.

Data di scadenza: 5 anni (dalla data di produzione).

5 kg □ 10 kg □ 20 kg □ 25 kg □

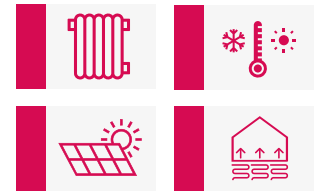


MAYCHEM srl  
Via Negrelli, 15  
37100 Bolzano (BZ)

Tel.: 0471/052852 - Fax: 0471/1968399  
P.IVA: 07096850017  
info@maychem.it • www.maychem.it

Anno di produzione:  
2021

code	package
10/MYFS	10 kg canister
20/MYFS	20 kg canister
25/MYFS	25 kg canister
200/MYFS	200 kg drum
1000/MYFS	1000 kg IBC



### Instructions for use

To restore solar- or geothermal systems, empty the circuit and load with clean water, then use a cleaner as Mayline SOLAR for removing the degraded antifreeze mix of glycol/water. For further details, see the technical data sheet of Mayline SOLAR.

Calculate the content of the system for the correct amount of Mayline FS in the needed mixing proportion. Half fill the system with water, then add the antifreeze agent Mayline FS, and fill the circuit completely with water, vent it well and turn on the pumps to put the water/glycol mix into circulation. After about an hour (after 2-3 hours on large systems) check the concentration with an optical refractometer for propylene glycols to determine the freeze protection. If the freeze protection is too low, add further antifreeze agent Mayline FS.

It is recommended, to check the needed antifreeze protection and that the pH value is not lower than 7.5, to be carried out at least every 12 months to ensure a proper functioning.

### Important note

Restore the system with a cleaner such as Mayline SOLAR, and then thoroughly rinse the system with the clean water before inserting Mayline FS with the clean water. Mayline FS can be mixed with the protective agent Mayline K32 in mixing proportion less than 30%, as well with the self sealing liquid Mayline F, but NOT with other chemicals or substances. Dilute the product in volumetric ratio as indicated in the table and mix it very well. Antifreeze mix of glycol/water with a pH value lower than 7.5, must be replaced.

### Mixing proportions

amount of antifreeze (% vol.)	antifreeze protection at
18 %	- 6° C
25 %	- 10° C
32 %	- 15° C
40 %	- 20° C
47 %	- 25° C

**Check** the needed antifreeze protection and the pH value is not lower than 7.5, to be carried out at least every 12 months to ensure a proper functioning. Antifreeze mix of glycol/water with a pH value lower than 7.5 must be replaced.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline FSP

Heat transfer fluid ready-to-use

**Inhibited, NON-TOXIC, ready-to-use propylene glycol based heat transfer fluid for solar- and geothermal systems**

Mayline FSP is a ready to use, high performing, non-toxic heat transfer fluid based on propylene glycol, free from nitrites, amines and phosphates, silicates and borates, combined with a protective package of inhibitors. This specific formulation avoids the formation of rust and corrosion on all materials present in solar- or geothermal systems such as iron, steel, copper (and its alloys), aluminium (and its alloys), synthetic materials (eg PEX pipe) and mixed materials (eg multilayer pipe) and protects too gaskets and seals.

code	package
10/MYFSP15	10 kg canister
20/MYFSP15	20 kg canister
25/MYFSP15	25 kg canister
200/MYFSP15	200 kg drum
1000/MYFSP15	1000 kg IBC
10/MYFSP25	10 kg canister
20/MYFSP25	20 kg canister
25/MYFSP25	25 kg canister
200/MYFSP25	200 kg drum
1000/MYFSP25	1000 kg IBC



**Mayline FSP25**  
**Liquido anticongelante -25 °C**  
 Liquido anticongelante pronto all'uso, atossico e protettivo, a base di glicole propilenico ad alte prestazioni

**Istruzioni d'uso:** Prima di sostituire il fluido termovettore in un impianto solare, è opportuno fare un lavaggio accurato con Mayline Solar per togliere i depositi derivanti da fluidi termovettori degradati. Iniziativa solare di nuova realizzazione deve essere lavata prima del riempimento con Mayline Novoterm (Vf. UNI EN5052019 capitolo 5.5.4.1). Dopo il lavaggio è obbligatorio un risciacquo finale con acqua di rete. Di seguito aggiungere il liquido solare con Mayline FSP25. Si raccomanda il controllo annuale degli impianti solari con liquidi anticongelanti come prescritto dalla norma UNI EN5052019. Controllare il valore pH che non deve essere inferiore a 7,5 e verificare i gradi di protezione contro il gelo con un riflettometro per glicole propilenico.

**Nota importante:** L'impianto non deve contenere sostanze aggressive come saponi, liquidi, altri anticongelanti o inibitori. Seguendo scrupolosamente le istruzioni non si creano danni a pompe e valvole di regolazione.

**Preparazione miscela:** NON DILUIRE. IL PRODOTTO È GIÀ PRONTO ALL'USO

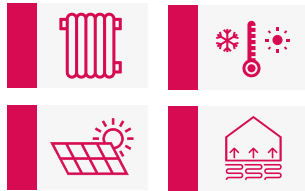
**Dati di sicurezza:** In caso di contatto con gli occhi lavare bene con acqua e consultare un medico. In caso di contatto con la pelle lavare bene con acqua. Portare guanti e occhiali di protezione. Rimuovere immediatamente con acqua da oggetti come piastrelle, pavimenti, lavandini, ecc. Conservare fuori dalla portata dei bambini.

**Smaltimento:** Smaltire nel rispetto delle norme locali, consultare la scheda informativa.

**Data di scadenza:** 5 anni (dalla data di produzione).

5 kg □ 10 kg □ 20 kg □ 25 kg □

**maychem** MAYCHEM srl  
 Via Inganni, 15  
 39100 Bolzano (BZ)  
 Tel.: 0471.052852 - Fax: 0471.1968339  
 73761.2702664502027  
 info@maychem.it - www.maychem.it  
 Anno di produzione: 2023



## Instructions for use

To restore solar- or geothermal systems, empty the circuit and load with the clean water, than use a cleaner as Mayline SOLAR for removing the degraded heat transfer fluids. For further details, see the technical data sheet of Mayline SOLAR. Fill the system completely with Mayline FSP, using the product as indicated below:

product	antifreeze protection at
Mayline FSP 15	- 15° C
Mayline FSP 25	- 25° C

## Important note

Restore the system with a cleaner such as Mayline SOLAR, and then thoroughly rinse the system with the clean water before inserting Mayline FSP with clean water. Mayline FSP can be mixed with the self sealing liquid Mayline F, but NOT with other chemicals or substances. Dilute the product in volumetric ratio as indicated in the table and mix very well. Antifreeze mix of glycol/water with a pH value lower than 7.5, must be replaced.

## Mixing proportions

DO NOT DILUTE. THE PRODUCT COMES READY FOR USE.

**Check** the needed antifreeze protection and the pH value is not lower than 7.5, to be carried out at least every 12 months to ensure a proper functioning. Heat transfer fluids with a pH value lower than 7.5 must be replaced.



## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline FSR

Antifreeze Agent

## Inhibited high performing diethylene glycol based antifreeze agent

Mayline FSR is a high performing antifreeze liquid based on diethylene glycol, combined with a protective package of inhibitors. This specific formulation avoids the formation of rust and corrosion on all materials present in a system such as iron, steel, copper (and its alloys), aluminium (and its alloys), synthetic materials (eg PEX pipe) and mixed materials (eg multilayer pipe) and protects too gaskets and seals.

Mayline FSR is suitable for protecting all types of solar thermal systems with vacuum collectors, designed to use with diethylene glycol.

code	package
10/MYFSR	10 kg canister
20/MYFSR	20 kg canister
25/MYFSR	25 kg canister
200/MYFSR	200 kg drum
1000/MYFSR	1000 kg IBC



UFI: EM00-GOEK-X008-9PW2



**Mayline FSR** Liquido anticongelante  
Liquido anticongelante a base di glicole dietilenico ad alte prestazioni con inibitori

**ATTENZIONE**  
Contiene: Cloruri glicolici  
Indicazioni di pericolo: H302 Nocivo se ingerito.

**Preparazione di miscela:**

Quantità di anticongelante (%)	Protezione fino a
18%	-6°C
25%	-10°C
32%	-15°C
40%	-20°C
47%	-25°C

**Maychem** s.p.a.  
Via Negrelli, 15  
39100 Bolzano (BZ)

Tel: 0471/952852 • Fax: 0471/968339  
P.S.I.A. 170268050237  
info@maychem.it • www.maychem.it

Anno di produzione: 2021

### Instructions for use

For systems to restore, empty the circuit and load with the clean water, then use a cleaner as Mayline SOLAR for removing the degraded antifreeze mix of glycol/water. For further details, see the technical data sheet of Mayline SOLAR.

Calculate the content of the system for the correct amount of Mayline FSR in the needed mixing proportion. Half fill the system with water, then add the antifreeze agent Mayline FSR, and fill the circuit completely with water, vent it well and turn on the pumps to put the water/glycol mix into circulation. After about an hour (after 2-3 hours on large systems) check the concentration with an optical refractometer for diethylene glycols to determine the freeze protection. If the freeze protection is too low, add further antifreeze agent Mayline FSR.

It is recommended to check the needed antifreeze protection and that the pH value is not lower than 7.5, to be carried out at least every 12 months to ensure a proper functioning.

### Important note

Restore the system with a cleaner such as Mayline SOLAR, and then thoroughly rinse the system with the clean water before inserting Mayline FSR with the clean water. Mayline FSR can be mixed with the protective agent Mayline K32 for mixing proportion less than 30%, as well with Mayline self-sealing liquid Mayline F, but NOT with other chemicals or substances. Dilute the product in volumetric ratio as indicated in the table and mix it very well. Antifreeze mix of glycol/water with a pH value lower than 7.5, must be replaced

### Mixing proportions

amount of antifreeze (% vol.)	antifreeze protection at
18 %	- 6° C
25 %	- 10° C
32 %	- 15° C
40 %	- 20° C
47%	- 25° C

Check the needed antifreeze protection and the pH value is not lower than 7.5, to be carried out at least every 12 months to ensure a proper functioning. Antifreeze mix of glycol/water with a pH value lower than 7.5, must be replaced.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline XS

Antifreeze agent

## Inhibited high performing ethylene glycol based antifreeze agent

Mayline XS is a high performing antifreeze liquid based on ethylene glycol, combined with a protective package of inhibitors. This specific formulation avoids the formation of rust and corrosion on all materials present in a system such as iron, steel, copper (and its alloys), aluminium (and its alloys), synthetic materials (eg PEX pipe) and mixed materials (eg multilayer pipe) and protects too gaskets and seals.

Mayline XS is suitable for protecting all types of heating and cooling systems, designed to use with ethylene glycol.

code	package
10/MYXS	10 kg canister
20/MYXS	20 kg canister
25/MYXS	25 kg canister
200/MYXS	200 kg drum
1000/MYXS	1000 kg IBC



UFI: V910-H0XS-D007-KEJK



**Mayline XS**  
**Liquido anticongelante**  
 Liquido anticongelante a base di glicole etilenico ad alte prestazioni con inibitori

**ATTENZIONE**  
 Contiene: Glicole etilenico INDEX 603-027-00-1

**Quantità di anticongelante (%vol.)**

Protezione fino a	Protezione fino a
12 %	-4°C
18 %	-9°C
30 %	-17°C
40 %	-26°C
50 %	-38°C

10 kg □ 20 kg □ 25 kg □

**Consigli di protezione:** P201 Non respirare i vapori. P202 Evitare l'assorbimento in caso di ingestione. P203 + P212 IN CASO DI INGESTIONE: in presenza di malfermezza, consultare un CENTRO ANTIVELENI o un medico. P241 In caso di inalazione, consultare un medico.

**Maychem** s.p.a. Via Magliolo, 15 39100 Bolzano (BZ) Tel.: 0471.052852 • Fax: 0471.1968339 Anno di produzione: 2023

### Instructions for use

For systems to restore, empty the circuit and load with the clean water, then use a cleaner as Mayline SOLAR for removing the degraded antifreeze mix of glycol/water. For further details, see the technical data sheet of Mayline SOLAR.

Calculate the content of the system for the correct amount of Mayline XS in the needed mixing proportion. Half fill the system with water, then add the antifreeze agent Mayline XS, and fill the circuit completely with water, vent it well and turn on the pumps to put the water/glycol mix into circulation. After about an hour (after 2-3 hours on large systems) check the concentration with an optical refractometer for diethylene glycols to determine the freeze protection. If the freeze protection is too low, add further antifreeze agent Mayline XS.

It is recommended to check the needed antifreeze protection and that the pH value is not lower than 7.5, to be carried out at least every 12 months to ensure a proper functioning.

### Important note

Restore the system with a cleaner such as Mayline SOLAR, and then thoroughly rinse the system with the clean water before inserting Mayline XS with the clean water. Mayline XS can be mixed with the protective agent Mayline K32 for mixing proportion then 30%, as well with Mayline self sealing liquid Mayline F, but NOT with other chemicals or substances. Dilute the product in volumetric ratio as indicated in the table and mix very well. Antifreeze mix of glycol/water with a pH value lower than 7.5, must be replaced.

### Mixing proportions

amount of antifreeze (% vol.)	antifreeze protection at
12 %	- 4° C
18 %	- 9° C
30 %	- 17° C
40 %	- 26° C
50 %	- 38° C

**Check** the needed antifreeze protection and the pH value is not lower than 7.5, to be carried out at least every 12 months to ensure a proper functioning. Antifreeze mix of glycol/water with a pH value lower than 7.5, must be replaced.



### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# **CLEANING AND MAINTENANCE**

# Mayline R99

Sanitizing cleaner for air conditioning



## Sanitizing cleaner for air conditioning, finned coils, fan coils and washable filters

Mayline R99 is a product specifically designed for the maintenance of finned coils, air filters and fan coils. Periodic maintenance of the system allows for better operation, better heat exchange, a protective barrier against the formation of biological deposits such as algae, moulds and bacteria (eg legionella pneumophila).

Mayline R99 is a formulation combined with surfactants, corrosion inhibitors, bio-oxidants and bio-dispersants, which allows the product immediately to remove all types of dirt and pollutants normally present on the surfaces of batteries and filters. It removes dirt, biological deposits, and those caused by impurities in the air, to eliminate the bad odours.

code	package
500/MYR99	500 ml (pack of 6 spray bottles)
5/MYR99	5l canister



UFI: 4610-108D-200R-X2YH

### Instructions for use

#### CLEANING OF FAN COILS SYSTEMS

- 1) Remove the external casing and extract the filter.
- 2) Spray the Mayline R99 solution on the coils and leave to act for a few minutes.
- 3) The re-rinsing takes place with the condensed water after turn on the air conditioner or manually with a sprayer mist pump with tap water.
- 4) The rinse water will come out of the condensate drain.

The rigid cell filters must be washed with the same procedure as for the coils. Do not blow on the filters with the compressor to avoid the spread of bacteria. Disposable filters must be sanitized with Mayline R99 before disposal.

#### Important note

Do not mix with other cleaners for air conditioning or other cleaning substances. Strictly follow our instructions for use. After cleaning, turn on the air conditioner so that the condensation water is created or rinse thoroughly by spraying tap water on the coil. Protect the product from frost.

#### Mixing proportions

DO NOT DILUTE. The product comes ready for use.

**Application time** Spray the coil well and leave to act for at least 15 minutes, then rinse it.



#### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

#### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Mayline Caltecplus

Combustion deposit remover for heat exchangers

Cleaner for removing the deposits of combustion residues on heat exchangers in aluminium alloys, copper, steel, stainless steel etc.

Mayline CaltecPlus eliminates the typical deposits on heat exchanger, on gas powered condensing boilers. The cleaner Mayline CaltecPlus was developed with a specific composition in order to achieve efficient cleaning, to restore afresh the heating transfer on heat exchangers. CaltecPlus leaves a protective surface film on the heat exchanger for more easily removing new deposits in a future cleaning.

code	package
5/MYCALP	5l canister



## Mayline Caltecplus

Disincrostante per il lato fumi degli scambiatori

Liquido pulitore disincrostante per il lato fumi degli scambiatori in alluminio silicio, acciaio e acciaio inox

**ISTRUZIONI D'USO:** Rimuovere la copertura dell'apparecchio a gas (caldaia). Togliere meccanicamente le incrostazioni più grosse con una spatola. Inserire la lancia dello spruzzatore nella caldaia, sotto il carico termale, immergendoci bene tutte le parti incrostate. Spruzzare il pulitore sullo scambiatore impregnando i depositi in modo abbondante e uniforme. **ATTENZIONE!** NON spruzzare sullo scambiatore ancora caldo! Esporre la lancia dello spruzzatore dalla caldaia e aspettare qualche minuto (da 10 min.) per lasciare penetrare il prodotto sulle incrostazioni. Se lo scambiatore è molto intasato/incrostanto ripetere l'operazione. Dopo il trattamento risciacquare lo scambiatore abbondantemente con acqua.  
**Attenzione:** Proteggere il prodotto dal gelo. Seguire scrupolosamente le istruzioni d'uso per evitare danni su cose o persone. NON spruzzare su componenti e cavi elettrici. NON spruzzare su componenti al di fuori dello scambiatore. Rimuovere immediatamente risciacquando abbondantemente con acqua da altri oggetti al di fuori dello scambiatore. NON spruzzare sullo scambiatore ancora caldo! Proteggere il prodotto dal gelo. Dopo la pulizia, RISCIAQUARE ABBONDANTEMENTE CON ACQUA DI RETE.  
**Preparazione di miscela:** NON DILUIRE. IL PRODOTTO È PRONTO ALL'USO.  
**Casi di sicurezza:** In caso di contatto con gli occhi lavare bene con acqua e consultare un medico. In caso di contatto con la pelle lavare bene con acqua. Portare guanti e occhiali di protezione. Rimuovere immediatamente con acqua da oggetti come pavimenti, pavimenti, lavandini, ecc. Conservare fuori dalla portata dei bambini.  
**Smaltimento:** Smaltire nel rispetto delle norme locali, consultare la scheda informativa.  
**Data di scadenza:** 5 anni (dalla data di produzione)

maychem  
MAYCHEM srl  
Via Hegrelli, 15  
39100 Bolzano (BZ)  
Tel.: 0471/052852 • Fax: 0471/968339  
P.IVA: IT02668160317  
info@maychem.it • www.maychem.it  
Anno di produzione: 2021

### Instructions for use

Remove the cover of the condensing boilers. Remove the coarsest combustion residues with a brush. Insert the lance of the sprayer bottle (optional, code MY/LSPCALP) in the heat exchanger and spray Mayline CaltecPlus evenly and amply, to impregnate the combustion deposits well with the cleaner. Then await for 10-15 minutes, hereafter rinse the heat exchanger well with the tap water. Repeat the operation in the case of heavily encrusted heat exchangers. After the treatment with Mayline CaltecPlus always rinse abundantly with the tap water.

### Important note

WARNING! DO NOT SPRAY ON THE HOT HEATING EXCHANGER, WAIT UNTIL IT IS JUST LUKEWARM! Strictly follow our instructions for use in order to avoid technical operator's risks. Do NOT spray upon other components or electrical cables. Application only on heat exchangers in gas powered condensing boilers. After contact other components with the product, clean immediately with the tap water. Protect the product from frost.

### Mixing proportions

DO NOT DILUTE. THE PRODUCT COMES READY FOR USE.

### Sprayer for Mayline CaltecPlus

Sprayer (without contents) with lance approx. 20 cm for cleaning application with Mayline CaltecPlus.

code	package
MY/SPRL	spray bottle with lance (1 pcs)



**Application time** Spray the heat exchanger well and leave to act for at least 15 minutes, then rinse it abundantly.

### Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor. In the event of skin contact, rinse well with water. Wear gloves and protective eyewear. Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc. Keep out of reach of children!

### Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.

# Mayline Deterdol

Degreasing cleaner

Detergent for cleaning and degreasing the surfaces after maintenance

Mayline Deterdol is used to clean surfaces in metal, plastic, wood. With its triple formulation Deterdol is very concentrated and effective in cleaning. It is also effective on greasy dirt thanks to the degreasing and sanitizing effect due to the presence of biological surfactants. Deterdol is used for the common cleaning needs of surfaces in general, for equipment, workshops and mechanical parts. Mayline Deterdol is a universal degreasing detergent for both industrial and household usage based on DOL which is able to incorporate and transport fat particles and metal molecules. Deterdol is an organic product which has a cleaning function, while the surfactant one has the ability to bind, solve and transport the dirt to be removed.



**Mayline Deterdol**  
Liquido di pulizia

**Detergente sgrassante per una pulizia superficiale a seguito di una manutenzione sulle caldaie.**

**ES0210**  
Scheda dati di sicurezza disponibile su richiesta

**Composizione (Reg. (CE) 648/2004):**  
abbassa al 5% i tensioattivi non ionici; senza caustici anionici.

**UFI: GE00-G01T-A009-Y0QX**

**Indicazioni d'uso:** Spruzzare il prodotto sulla superficie da pulire, quindi passare con un panno o straccio pulito.

**Preparazione di miscela:** NON DILUIRE, IL PRODOTTO È PRONTO ALL'USO.

**Dati di sicurezza:** In caso di contatto con gli occhi lavare bene con acqua e consultare un medico. In caso di contatto con la pelle lavare bene con acqua. Portare guanti, occhiali e maschera antierosi di protezione. Rimuovere immediatamente rialzando abbondantemente con acqua da altri oggetti al di fuori dello scambiatore. Conservare fuori dalla portata dei bambini.

**Smaltimento:** Smaltire nel rispetto delle norme locali, consultare la scheda di sicurezza.

Data di scadenza: 3 anni (dalla data di produzione).

**maychem** MAYCHEM srl  
Via Reggello, 15  
39100 Bolzano (BZ)

Tel.: 0471/052852 - Fax: 0471/1948339  
F.IVA: IT026488140217  
info@maychem.it - www.maychem.it

Anno di produzione: 2021

5 H □

code	package
5/MYDET	5 l canister



UFI: GE00-G01T-A009-Y0QX

## Instructions for use

Spray the product on the surface to be cleaned, then wipe with a clean cloth or rag.

## Important note

Mayline Deterdol **MUST NOT** be mixed with other chemicals or cleaning agents.  
Mayline Deterdol **MUST NOT** get on sensitive surfaces or objects, etc.!  
When storing, protect from UV radiation, temperatures above 40 ° C and frost!

## Mixing proportions

DO NOT DILUTE. THE PRODUCT COMES READY FOR USE.

## Sprayer for Mayline Deterdol

Sprayer (without contents) for cleaning application of Mayline Deterdol , with top-up cap for easy re-filling without removing the nebulizer.

code	package
MY/SPR	spray bottle (1 pcs)

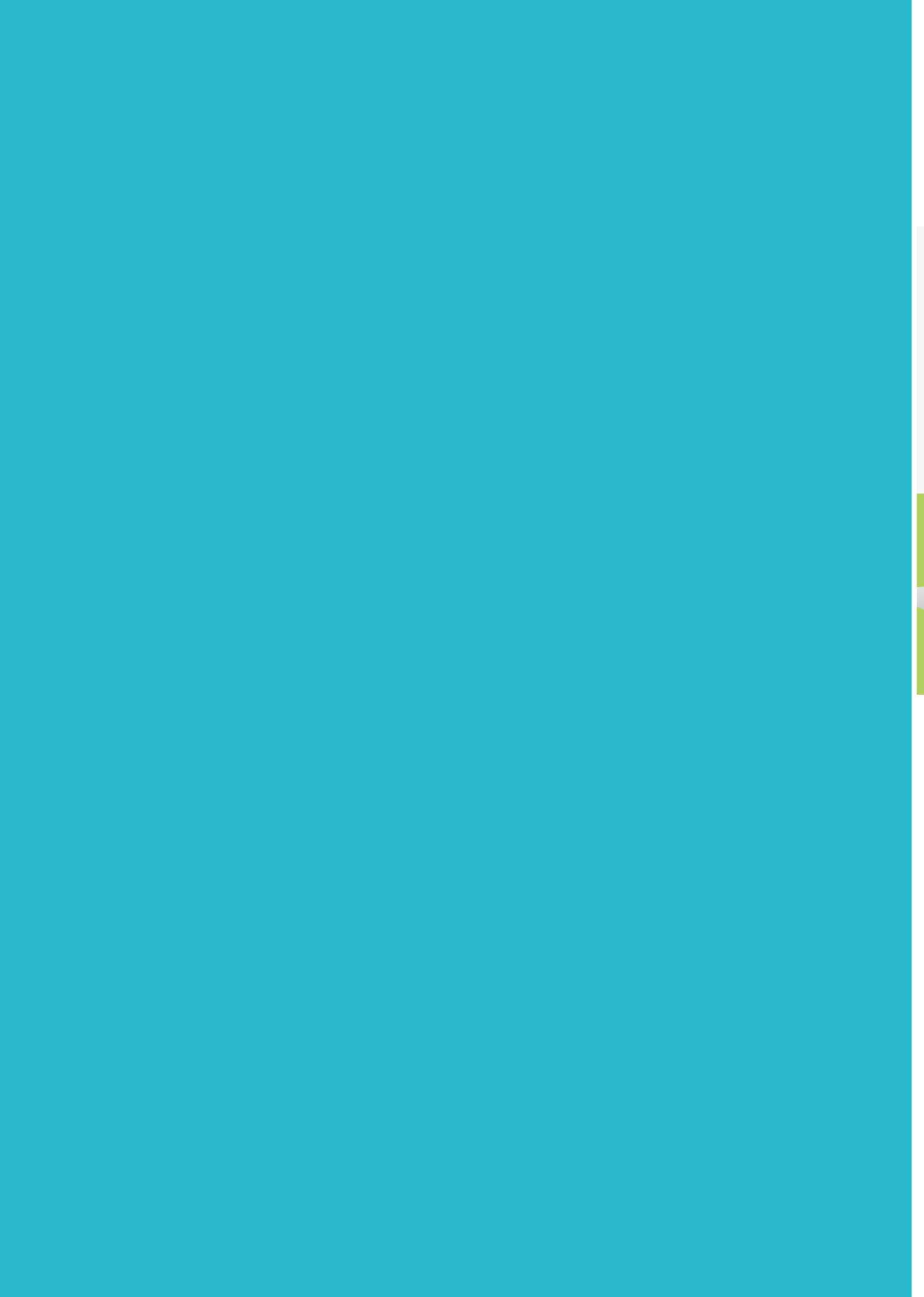


## Security instructions

In the event of eye contact, rinse eyes thoroughly with much water and consult a doctor.  
In the event of skin contact, rinse well with water. Wear gloves and protective eyewear.  
Use water to immediately remove the product from objects such as tiles, flooring, wash basins, etc.  
Keep out of reach of children!

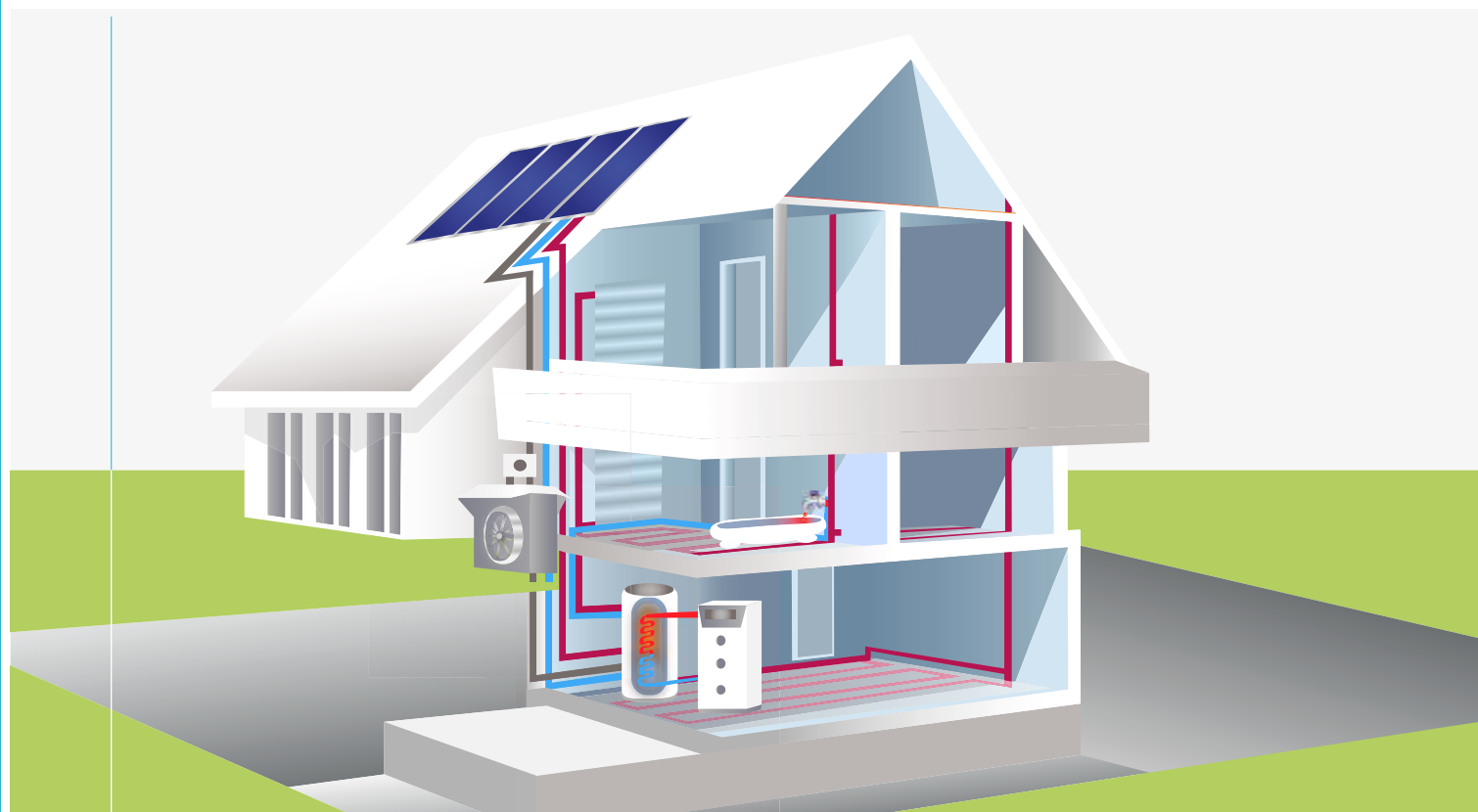
## Disposal

For information concerning the disposal of effluent and liquid waste, please consult the corresponding safety data sheet or the information sheet.



# Maychem

## Water softeners and filters



### Softeners

Carezza C14 model	14 l
Carezza C12 model	25 l
Stelvio ST12 model	14 l
Stelvio ST30 model	30 l
Stelvio ST34 model	34 l

### Boiler accessories

#### Polyphosphate dosing unit

MY/DOS	1/2" fitting	capacity 1.5 cu.m/h
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#### Acid condensate neutraliser

MY/NOACI	for condensing boilers up to 35 kW
MY/NOACIPLUS	for condensing boilers up to 120 kW

### Water filters

#### ASPR models

ASPR3	3/4" fitting	capacity 3 cu.m/h
ASPR4	3/4" fitting	capacity 4 cu.m/h
ASPR8	1" fitting	capacity 8 cu.m/h

#### AT models

AT1M12	1/2" fitting	with 1 pressure gauge	capacity 2.5 cu.m/h
AT2M34	3/4" fitting	with 2 pressure gauges	capacity 3 cu.m/h
AT34	3/4" fitting	without pressure gauge	capacity 3 cu.m/h

#### Magnetic dirt separator and magnetic filter for systems up to 35 kW

MY/DEFMAG2	Magnetic dirt separator
MY/MINIDEFMAG	Magnetic filter

# Softener

# Carezza



C14 - 14 l

C25 - 25 l

## Water softener with cabinet

It has been designed with special attention to practicality and easy handling, it is a simple and functional model, featuring linear and modern shapes.

Available in two versions: a smaller 14 l model (C14), suitable for families of 3/4 persons, and a larger model (C25) with 25 l of resin, suitable also for larger families.

Code	Package
MY/C14	1 piece
MY/C25	1 piece

## Description

Carezza water softeners operates with HALF-FULL brine tank with 2 filling steps: allowing the water and salt consumption reduction, accordingly with the real resin regeneration needs and reducing the salt bridges formation. Holiday mode setting available allows water saving while keeping resins efficient.

The softener is equipped with a handy 2-colour pull-out display with conventional keyboard that gives the user information about:

- Cyclic capacity and residual capacity
- Average number of people served by the water softener and its reserve
- Estimated number of days before next regeneration
- Date of last regeneration and total number of regenerations
- Total amount of water treated by softener
- Amount of untreated water, if any, in the last 4 regenerations
- Operating flow rate and maximum peak flow rate since last regeneration

TECHNICAL DATA	C14	C25	U.M.
Resin amount	14	25	l
Cylinder dimensions	254x431.8	254x889	mm
Product dimensions Length x Width x Height	499 x 330 x 575	499 x 330 x 1030	mm
Cyclic capacity	84	150	frxm <sub>3</sub>
Salt storage capacity	23	61	kg
Water used for regeneration	60	132	l
Salt used for regeneration	1.2	2.4	kg
Nominal flow rate	17	33	l/min
Backwash flow rate	9		l/min
Operating temperature	4 - 43		°C
Operating pressure	1.3 - 5		bar
Type of regeneration	Up Flow/counterflow		
Regeneration mode	Proportional volumetric, immediate or delayed Manual regeneration		
Hydraulic connections	¾" fittings for C14 - 1" fittings for C25		
Electrical requirements	Input 110 V-120 V / 220-240V AC 50/60 Hz Output 12V AC 650mA		
Water supply	Municipal water system		

# Softener

# Stelvio

ST12 - 12 l

ST30 - 30 l

ST34 - 34 l

## Water softener with cabinet

With simple and modern shapes, suitable also as furnishing element and available in 3 versions: a smaller 12 l model (ST12), suitable for families of 3 persons, a larger model available, with the same size, with 30 l (ST30) or 34 l (ST34) of resin.



Code	Package
MY/ST12	1 piece
MY/ST30	1 piece
MY/ST34	1 piece

## Description

STELVIO water softeners operates with HALF-FULL brine tank with 2 filling steps: allowing the water and salt consumption reduction, accordingly with the real resin regeneration needs and reducing the salt bridges formation. Holiday mode setting available allows water saving while keeping resins efficient.

The softener is equipped with a colour pull-out LCD display, with intuitive icons (smartphone type) and touch sensitive keyboard, that allows the user to view simple and clear information about:

- Date and time
- Time at which the softener performs regeneration
- Water hardness set
- Cyclic capacity (total amount of water that the softener can treat before regeneration takes place)
- Residual capacity (amount of water that can still be softened before regeneration is complete)
- Remaining percentage of softening capacity (before subsequent regeneration is performed)
- Current water flow rate
- Holiday mode activation/deactivation
- Operating flow rate and maximum peak flow rate since last regeneration

TECHNICAL DATA	ST12	ST30	ST34	U.M.
Resin amount	12	30	34	l
Cylinder dimensions	254x381	254x889	279.4x889	mm
Product dimensions Length x Width x Height	485 x 370 x 541	485 x 370 x 1051	485 x 370 x 1051	mm
Cyclic capacity	60	150	200	frxm <sub>3</sub>
Salt storage capacity	15	56	51	kg
Water used for regeneration	48	120	170	l
Salt used for regeneration	1	2.4	3.4	kg
Nominal flow rate	13	33	45	l/min
Backwash flow rate	9		11.4	l/min
Operating temperature	4 - 43			°C
Operating pressure	1.3 - 5			bar
Type of regeneration	Up Flow/counterflow			
Regeneration mode	Proportional volumetric, immediate or delayed Manual regeneration			
Hydraulic connections	¾" fittings for ST12 - 1" fittings for ST30 and ST34			
Electrical requirements	Input 110 V-120 V / 220-240V AC 50/60 Hz Output 12V AC 650mA			
Water supply	Municipal water system			

# Water filter

# ASPR

ASP series filters



## Self-cleaning cyclone filter

ASPR filters are fitted with a CYCLONIC cleaning mode and with an external bulkhead that wraps around the filtering cartridge; this mode is much more efficient than the one that occurs with the classical brushes. Therefore a suction vortex that conveys the particles outside the glass is activated; no heavy brushing will be carried out, thus avoiding the classic occlusive effect and allowing the impurities to be transported towards the drain.

Code	Package
MY/ASPR3	1 piece
MY/ASPR4	1 piece
MY/ASPR8	1 piece

## Filter start-up

The filter must be installed before the softener (if present), or in any case immediately after the meter. After installation, the filter must be rinsed with running water. Before washing the filter, slowly open the drain valve and make sure the drain hose is connected and terminates in a container wide enough to collect the drain water.

## Routine maintenance

The filter must be cleaned as often as necessary, depending on the water characteristics but in any case at least once a month with a washing it for at least 30 seconds:

Open the drain valve by turning the black knob to the (ON) position. While the water is flowing into the drain, rotate the lower white part of the filter (under the black ring nut) 3-4 times clockwise and anti-clockwise every 5/6 seconds, intermittently: in this way, the external bulkhead surrounding the filter cartridge will activate a suction vortex that will move the particles collected in the bowl outside, without heavy brushing, and thus avoiding the classic clogging effect.

## Extraordinary maintenance

When the filter has not been cleaned for a long time, it may be necessary to disassemble it and thoroughly clean each component. This operation can be performed only by qualified professional operators.

ASPR SERIES FILTERS - MODELS AND FEATURES			
code	MY/ASPR3	MY/ASPR4	MY/ASPR8
flow rate	3,000 l/h	4,000 l/h	8,000 l/h
fittings	3/4"	3/4"	1"
filtering mesh	90 µm	90 µm	90 µm
min.-max. pressure	1 - 10 bar	1 - 10 bar	1 - 10 bar
min.-max. temperature	5 - 40 °C	5 - 40 °C	5 - 40 °C
dimensions (W x H)	250 x 100 mm	270 x 100 mm	370 x 110 mm



# Water filter

# AT

## AT series filters



### Cleaning filter

AT series filters are suitable for domestic use. They are able to perform a safe filtration of inlet water stopping suspended particles to prevent their sedimentation. They are available with or without pressure gauges and equipped with a drain valve for easy manual cleaning.

Code	Package
MY/AT1M12	1 piece
MY/AT2M34	1 piece
MY/AT34	1 piece

### Filter start-up

The filter must be installed before the softener (if present), or in any case immediately after the meter. After installation, the filter must be rinsed with running water. Before washing the filter, open the drain valve and make sure it terminates in a container wide enough to collect the drain water. Pay ATTENTION to the water pressure.

### Routine maintenance

MY/AT1M12 filter with one pressure gauge: it must be cleaned when the pressure indicated by the pressure gauge is approximately 1 bar.

MY/AT2M34 filter with two pressure gauges: it must be cleaned when the pressure drop is approximately 1.5 bar.

MY/AT34 filter without pressure gauge: it must be cleaned in case of excess of turbidity and at least once a month.

Before washing the filter, make sure it terminates in a container wide enough to collect the drain water. Open the drain valve. The valve must be opened intermittently, once every 5/6 seconds, and quickly, considering the water pressure: in this way an efficient cleaning of the filter will be ensured without having to disassemble it.

### Extraordinary maintenance

When the filter has not been cleaned for a long time, it may be necessary to disassemble it and thoroughly clean each component. This operation can be performed only by qualified professional operators.

AT SERIES FILTERS - MODELS AND FEATURES			
code	MY/AT1M12	MY/AT2M34	MY/AT34
flow rate	2,500 l/h	3,000 l/h	3,000 l/h
fittings	½"	¾"	¾"
filtering mesh	90 µm	90 µm	90 µm
min.-max. pressure	1 - 10 bar	1 - 10 bar	1 - 10 bar
min.-max. temperature	5 - 40 °C	5 - 40 °C	5 - 40 °C
pressure gauges supplied	1	2	-
dimensions (W x H)	250 x 80 mm	265 x 90 mm	215 x 90 mm

# BOILER ACCESSORIES

# Mayline myDOS

## Polyphosphate dosing unit



### Dosing device with polyphosphate beads able to prevent the formation of limescale in domestic hot water distribution systems.

In order to protect water and heating systems against limescale deposits and corrosion, it is possible to add specific chemicals (in particular polyphosphate salts) to drinking water. MyDOS polyphosphate dosing unit system supply a precise dosing and correct consumption of polyphosphate based on and in accordance with the water characteristics. Polyphosphate also performs a pipes protective function by exerting an anti-corrosive action. myDOS is a device designed and certified for the proportional dosing of chemical additives for the treatment of drinking water.

myDOS container can resist to temperatures down to - 20 °C and contains polyphosphate beads certified for the treatment of up to 30 cu.m of water.

Code	Package
MY/DOS	10 pieces

### Instructions for use

Make sure that the needle valve is completely closed (!) before connecting the dosing unit.

- 1) Disconnect power to the boiler and close the upstream domestic cold water inlet by acting on the tap, open any domestic water tap and the domestic draining tap to allow the pressure in the domestic water circuit to be released.
- 2) Locate an appropriate position for dosing unit installation considering also the spaces required to remove the container for inserting the beads refill with the bag (DO NOT OPEN the bag with the polyphosphate beads).
- 3) Install and connect the dosing unit under the boiler on the cold water supply pipe for domestic hot water production.
- 4) Reopen the cold water inlet tap.
- 5) Open the needle valve: this will allow the water to flow down into the bowl and come into contact with the polyphosphate beads inside the bag. A special feature is the gradual release of the polyphosphate, ensuring a constant concentration.

### Information and warnings

MYDOS is a product MADE IN ITALY with high-quality materials such as nickel-plated brass and high-strength polymer.

The container (resistant to -20 °C) houses the polyphosphate beads refill bag, designed to treat up to 30 cu.m. of water and last approximately 6 months. The food-grade plastic bag containing the beads must not be removed (DO NOT OPEN the bag with the polyphosphate beads).

The polyphosphate beads comply with existing EC standards (EN 1208) and FAO/WHO regulations. The refills are also NSF certified according to NSF/ANSI Standard 60.

MYDOS complies with the requirements of the Decree of the Italian Ministry of Health no. 174 of 6 April 2004, and is therefore suitable for use on drinking water.

Using refills with polyphosphate beads other than myREDOS original ones by Maychem will void the warranty.

### Features:

- container resistant to temperatures down to -20 °C
- in-line connection with swivel nut and 1/2" F fittings
- precise and constant dosing
- treatment of up to 30 cu.m with one Mayline myREDOS certified refill
- max. capacity of 1.5 cu.m/h and max. operating pressure of 8 bar
- innovative design with optimised spaces
- easy and certified refill by inserting the bag with polyphosphate beads in the container
- no turbulence in the container.

## Refills

Code	Package
MY/REDOS	10 refill bags (1 bag for 30 cu.m of water)

# Mayline myNOACI

Acid condensate neutraliser

## Compact acid condensate neutraliser for condensing boilers up to 35kW

A condensing boiler suitable for an average home can produce up to 1 litre of acidic condensate (pH 3.5-4.0) per cubic meter of gas consumed. Mayline myNOACI increases pH of acid condensate included in condensing boilers exhausted smokes up to values from 6,5 to 9, preventing damages to pipes and environment. The Mayline myNOACI compact neutraliser for acidic condensate water has been developed to offer an environmentally friendly and practical solution able to be fitted in small spaces.



Code	Package
MY/NOACI	10 pieces

### Installation

- Locate an appropriate position for neutraliser installation considering also the spaces required for inlet and outlet pipes.
- Fix the 2 supplied collars to the wall.
- Press fit the cartridge inside the collars.
- Connect the pipe from the boiler to the cartridge inlet.
- Connect a pipe to the neutraliser outlet and convey the other end to the drain.

NOTE: The cartridge can be positioned horizontally with a slight inclination or vertically. Turn the inspection windows to the front position for easier reading.

### Maintenance

Maintenance of the neutraliser should be carried out at regular intervals and, in any case, at least after each heating season.

Maintenance consists only in refilling the neutralising granules when they have reached the "MIN" level. If the device is installed horizontally, the filling level can be checked through the rectangular window; if it is installed vertically, it can be checked through the oval window.

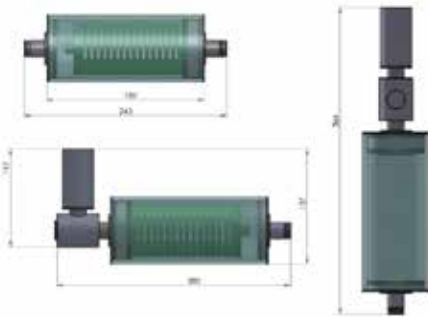
- Disconnect the pipes from the inlet and outlet fittings of the neutralising cartridge.
- Place the cartridge vertically and disconnect the inlet cap by slightly rotating it.
- Pour in the neutralising material refill until the MAX indication is reached.
- Reposition the cap at the inlet, taking care to use grease for the O-rings and making a slight rotation.
- Press the cartridge back into the collars and connect the pipes.
- Turn the inspection windows to the front position for easier reading.

## Refills

Code	Package
MY/RENOACI	10 refill bags (of neutralising granules)

# Mayline myNOACIplus

Acid condensate neutraliser



## Acid condensate neutraliser for condensing boilers up to 120kW

NOACIDplus is a neutraliser for commercial and industrial boilers up to 120 kW and can be fitted both horizontally and vertically. Able to carry out an effective and immediate neutralisation of condensate coming out of condensing boilers and has an exchange capacity of about 30 l/h of condensate, which may vary according to the condensate acidity. The cartridge can treat up to 4,500 l. Thanks to the transparent cylinder, it can be fully inspected and allows a quick and easy replacement of the cartridge, thus restoring the effectiveness of the product. NOACIDplus is equipped with a BY-PASS which, in case of clogging, prevents the condensate from returning inside the boiler, causing it to lock out.

Code	Package
MY/NOACIPLUS	1 piece

### Installation

- Locate an appropriate position for neutraliser installation considering also the spaces required for inlet and outlet pipes.
- Fix the supplied collars to the wall.
- Connect the neutraliser inlet and outlet properly and with suitable means in order to prevent any leakage and close the remaining hole with the cap supplied.
- The treated condensate can be drained from the neutraliser into the downspout, checking the pH value of the outgoing condensate periodically.
- The cap/fitting at the outlet are made of PVC and therefore can be glued.
- Before starting the boiler, check that the inlet and outlet of the neutraliser are not obstructed by foreign matters.

### Maintenance

Maintenance of the neutraliser should be carried out at regular intervals and, in any case, at least after each interval calculated theoretically on the basis of the neutraliser characteristics.

- The neutralising cartridge can be replaced easily by removing the inlet (IN) or outlet (OUT) cap/fitting with a simple rotation.
- The replacement cartridge must be inserted following the marked direction arrows.
- To reinsert the extracted PVC cap/fitting, it is advisable to rotate it after applying Vaseline or another lubricant.

NB. The service life of the neutralising cartridge varies according to the acidity and amount of condensate; it must be replaced periodically during boiler maintenance.

### Features:

- exchange capacity of about 30 l/h of condensate (varying according to the condensate acidity)
- The cartridge can treat up to 4,500 l (varying according to the acidity level)
- equipped with a BY-PASS which, in case of clogging, prevents the condensate from returning inside the boiler, causing it to lock out

## Refills

Code	Package
MY/RENOACIPLUS	1 piece (complete internal cartridge)

# Mayline DEFMAG 2

Magnetic sludge separator

**Magnetic sludge separator  
for systems up to 35 kW**



Mayline DEFMAG 2 is a magnetic sludge separator that, developing an helicoidal action, is able to separate and remove all impurities, such as iron oxide, sludge, various types of deposits, sand, etc. from the system water. Mayline DEFMAG 2 is suitable for use in all domestic systems and is installed in the return circuit, at the boiler inlet, to prevent impurities from being deposited inside the heat exchanger. Mayline DEFMAG 2 is very versatile thanks to the swivel diverter body and also allows for vertical or diagonal installation without compromising performance.

Code	Package
MY/DEFMAG2	1 piece

## Installation

1. On the system return line, locate an installation position that allows accessibility for maintenance, e.g. to remove the magnet in the upper body, open the filter drain tap, and/or disassemble the lower body for thorough cleaning.
2. Empty the system. If the system is treated with conditioning agents, it is advisable to collect the system water in a special container so that it can be used at the end of the work.
3. Always use the ball valves supplied when installing the sludge separator to facilitate maintenance, cleaning and flushing operations. It is recommended to measure the sludge separator with the valves installed as if they were running, in order to cut the chosen return pipe according to the total installation size.
4. During installation, turn the ring nut of the sludge separator with the arrow on the diverter body pointing in the direction of the system flow. Check that the O-ring is in its seat, then tighten. The filter housing can be oriented vertically or tilted by up to 45° in case of limited space.
5. A thorough cleaning is recommended with one of the Mayline HRplus, Mayline HR or Mayline CP cleaners for high-temperature systems and with Mayline SB for low-temperature systems. In both cases, rinse thoroughly with tap water.
6. Open the ball valves to load the system. Add 1% Mayline K32 conditioning agent for high-temperature systems, or 1% Mayline SBA for low-temperature systems. Then check all seals on the sludge separator and ball valves. Vent the air in the sludge separator using the air exhaust valve on top of the sludge separator.

## Maintenance

In case of first-time application, clean the sludge separator after 4-5 weeks. Subsequent cleaning must be carried out every 6 to 12 months.

## Features:

- Helicoidal technology with 12,000 Gauss Neodymium magnet;
- Installation on both horizontal and vertical pipes via an adjustable ring nut;
- Vertical or 45° inclined installation;
- Removes any magnetic and non-magnetic particles;
- Non-stick filter in flow direction to ensure decantation of non-magnetic impurities;
- Self-cleaning: easy cleaning and rinsing via a drain valve;
- Low pressure drop;
- Suitable for heating, cooling, heat pumps, biomass installations, etc.;
- Resistant up to 90° C;
- Suitable for glycol solutions;
- Anti-stripping wrench supplied.

# Mayline MINIDEFMAG

## Magnetic filter

### Magnetic filter for systems up to 35 kW



Mayline MiniDefmag is a compact magnetic filter that thanks to its compact size it can be installed under the boiler, on the return line upstream of the circulation pump, using right-angle fittings, i.e. with horizontal body and inlet, vertical outlet facing upwards and drain downwards. The MiniDefmag filter is equipped with a 800µm filtration degree internal mesh to retain the circulating non-magnetic particles, while the magnetic ones will be attracted by the 12,000 Gauss neodymium magnet. The special structure of the sludge separator allows cleaning the filter with direct flow and counter-flow; the simultaneous extraction of the magnet allows the effective removal of all sediments through the drain.

Code	Package
MY/MINIDEF	1 piece

### Installation

1. On the system return line, locate an installation position that allows accessibility for maintenance, e.g. to remove the magnet, open the filter drain tap and/or disassemble the filter for thorough cleaning.
2. Empty the system. If the system is treated with conditioning agents, it is advisable to collect the system water in a special container so that it can be used at the end of the work.
3. Always use the valve supplied when installing the filter to facilitate maintenance, cleaning and flushing operations. It is recommended to measure the filter with the valve installed as if it was running, in order to cut the chosen return pipe according to the total installation size.
4. The filter housing can be oriented only horizontally.
5. A thorough cleaning is recommended with one of the Mayline HRplus, Mayline HR or Mayline CP cleaners for high-temperature systems and with Mayline SB for low-temperature systems. In both cases, rinse thoroughly with tap water.
6. Open the valve to load the system. Add 1% Mayline K32 conditioning agent for high-temperature systems, or 1% Mayline SBA for low-temperature systems. Then check all seals on the filter and ball valve.

### Maintenance

In case of first-time application, clean the sludge separator after 4-5 weeks. Subsequent cleaning must be carried out every 6 to 12 months.

### Features:

- 12,000 Gauss Neodymium magnet;
- Installation with right-angle fittings with horizontal body;
- Removes magnetic and non-magnetic particles;
- Stainless steel filter with separator bulkhead in flow direction with 800µm mesh;
- Easy cleaning and rinsing via the drain valve;
- Low pressure drop;
- Suitable for installation on gas boilers etc.;
- Resistant up to 90° C;
- Suitable for glycol solutions.



# Mayline Accessories

For the best performance of Mayline products we suggest to use original accessories (loading pump, measuring kit, gastop equipment, etc ...) following meticulously the instructions.

## Test Kit Molybdenum

Test kit for measuring the molybdenum concentration of Mayline K32, Mayline SBA, Mayline Protec and Mayline AR.



code	package
MY/T-MOL	1 pcs (100 tests)

## pH test stripes

Set of 100 pH test stripes with range from 1 to 12 for measuring the pH value.



code	package
MY/T-PH	1 pcs (100 tests)



## Test case Simple Test

- 1 Molybdenum test kit
- 1 Hardness water test kit
- 1 Iron water test kit
- 2 Bacteria water test kit
- 1 pH test stripes

## Test case Profi Test

- 1 Molybdenum test kit
- 1 Hardness water test kit
- 1 Iron water test kit
- 2 Bacteria water test kit
- 1 pH test stripes
- 1 Optical refractometer

code	package
MY/VTS	1 pcs
MY/VTP	1 pcs

## Bacteria water test kit

code	package
MY/T-BAT	1 pcs



## Hardness water test kit

code	package
MY/T-DUR	1 pcs



## Iron water test kit

code	package
MY/T-FER	1 pcs



## Optical refractometer

code	package
MY/RT	1 pcs



## M20 Flushing pump

The Mayline M20 is a vertical axis pump suitable for these purposes (coils boilers and heat exchangers). Its adaptability, flexibility, easy in use and high performance make this product the most sought after by the technicians.

Tank: 20 liters, Max flow rate: 2600 l/hrs, KW: 0.132, Pressure: 1 bar,  
Protection: IP54, Weight: 8.5 kg



code	package
MY/M20	1 pcs

## Mayline Gastop set PROFESSIONAL

Professional equipment for sealing screw connections of gas pipes.

### The set includes:

- Membrane pump with automatic pressure adjustment
- Blower fan
- Container for liquid and recovery of molch balls
- Container to vent the system
- Gas line pump connection tubes
- Liquid recovery tubes
- System drying tubes
- Compressed air piping
- 1/2 "and 1" fittings
- Set of molch balls
- Plastic container for equipment set



code	package
MY/GPROF	1 equipment set

## Set of molch balls

Set of 8 pieces of molch balls for Mayline Gastop, with various diameter from 1/2" to 1 1/4".

code	package
MY/SMOL	Set of 8 pcs





# Notes

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## MAYCHEM Srl

Via Negrelli, 15  
39100 Bolzano (BZ) - Italy  
T +39 0471/052852  
F +39 0471/1968339  
P.IVA: IT02668160217

[www.maychem.it](http://www.maychem.it)  
[info@maychem.it](mailto:info@maychem.it)

