

FLUIDS, CHEMICALS



- **antifreeze fluids**
- **cleaning and protective agents**
- **thread sealants**

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ANTIFREEZE FLUIDS FOR SOLAR THERMAL SYSTEMS



SOLARTEN SUPER+

Heat transfer anticorrosion fluid of a low freezing point, based on triethylene glycol, for all kinds of solar thermal collectors incl. evacuated tube types.

Freezing point	- 28 °C
Operation temperature	up to 190 °C
Short-term overheating limit	270 °C

TECHNICAL DATA

STATE	liquid
COLOUR	yellow
ODOUR	weak characteristic
pH	8 - 10
DILUTION	used undiluted

APPLICATION

Fill a sealed solar thermal system with antifreeze fluid. Use a special filling pump or a manual pump (see Accessories).

Once in every 2 years check the freezing point using a refractometer (frost protection measurer).

PACKAGING

Plastic container, 5l	Code - 19050
Plastic container, 10l	Code - 19051
Plastic container, 25l	Code - 19052
Plastic container, 60l	Code - 19125

ACCESSORIES FOR ANTIFREEZE HANDLING



Manual filling and topping up pump suitable for smaller solar thermal systems. It may stay installed in a system for a solar fluid top-up when needed.



Filling push cart with a powerful pump designed for professional filling and air venting of sealed systems like solar thermal systems, floor and wall heating circuits.



Electric filling and top-up pump, featuring reliable low-noise piston pump that is easy to use.



402 ATC Refractometer for freezing point measurement of antifreeze fluids.

ANTIFREEZE FLUIDS FOR SOLAR THERMAL SYSTEMS



SOLARTEN HT

Heat transfer anticorrosion fluid of a low freezing point, based on heavy glycols, intended for heavily thermally loaded solar thermal systems. It is suitable for all kinds of Regulus solar thermal collectors incl. evacuated tube types.

Freezing point	- 28 °C
Operation temperature	up to 260 °C
Short-term overheating limit	320 °C

TECHNICAL DATA

STATE	liquid
COLOUR	colourless
ODOUR	odourless
pH	7.2 – 9.0
DILUTION	used undiluted

APPLICATION

Fill a sealed solar thermal system with antifreeze fluid. Use a special filling pump or a manual pump (see Accessories).

Once in every 2 years check the freezing point using a refractometer (frost protection measurer).

PACKAGING

Plastic container, 5l	Code - 14951
Plastic container, 10l	Code - 14095
Plastic container, 25l	Code - 14096
Plastic container, 60l	Code - 14952
Barrel, 200l	Code - 14953

ACCESSORIES FOR ANTIFREEZE HANDLING



Manual filling and topping up pump suitable for smaller solar thermal systems. It may stay installed in a system for a solar fluid top-up when needed.



Filling push cart with a powerful pump designed for professional filling and air venting of sealed systems like solar thermal systems, floor and wall heating circuits.



Electric filling and top-up pump, featuring reliable low-noise piston pump that is easy to use.



402 ATC Refractometer for freezing point measurement of antifreeze fluids.

ANTIFREEZE FLUIDS FOR HEATING AND COOLING SYSTEMS



RegulusAFheat

Heat transfer anticorrosion fluid of a low freezing point, based on glycerine and monoethylene glycol, **for heating and cooling systems, incl. primary circuits of heat pumps**. It contains multifunction corrosion inhibitor; sufficient anticorrosion protection is ensured up to 1:5 dilution ratio.

Freezing points of most common aqueous solutions:

1:2	min. -39°C
1:2.5	min. -26°C
1:3	min. -17°C
1:4	min. -12°C
1:5	min. -9°C

APPLICATION

Fill a sealed heating/cooling circuit with anti-freeze fluid. Use special filling pumps and manual pumps (see Accessories). To fill the primary circuit of a heat pump, you can use a filling kit that can be ordered as an accessory to a heat pump. Once in every 2 years check the freezing point using a refractometer (frost protection measurer). For heat pumps, keep checking regularly the temperature difference between the heat pump return and flow, it should not be too high (max. 7°C).

TECHNICAL DATA

STATE	liquid
COLOUR	blue
ODOUR	weak characteristic
pH (at 30%)	8 - 10
DILUTION	1:2 - 1:5

PACKAGING

Plastic container, 5l	Code - 19269
Plastic container, 25l	Code - 19270
Barrel, 200l	Code - 19271

ACCESSORIES FOR ANTIFREEZE HANDLING



Electric filling and top-up pump, featuring reliable low-noise piston pump that is easy to use.



Filling manifold for primary circuits with two-way valves, filter, fill/drain valves and insulation, intended for filling, flushing and air discharging.



Filling push cart with a powerful pump designed for professional filling and air venting of sealed systems like solar thermal systems, floor and wall heating circuits.



402 ATC Refractometer for freezing point measurement of antifreeze fluids.

ACCESSORIES FOR FLUID ANALYSIS

HAND HELD REFRACTOMETER 402 ATC

is intended to measure frost protection of antifreeze fluids.

With the percent concentration shown you can find out the freezing temperature for both propylene glycol (left-side scale, used as antifreeze mainly in Europe) and ethylene glycol (right-hand scale, used as antifreeze outside Europe). It can be also used to measure electrolyte concentration in car batteries following the middle scale that shows the specific density of the battery electrolyte in kg/l.

The scale text also suggests what to do next with the battery.

Code - 6933



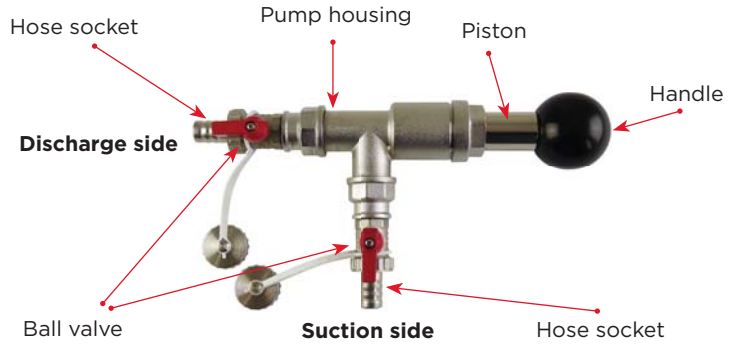
FILLING PUMPS

MANUAL FILLING AND TOP UP PUMP

suitable for smaller solar thermal systems. It may stay installed in a system for solar fluid top-up when needed. It can be also used for filling heating systems with cleaning and protective solutions.

Pump alone with hose sockets

Code - 15111



Pump with container and connection fittings

Code - 15054

This pump is moreover fitted with a 600ml fluid container and a 3/4" MFU connecting union on the discharge side.

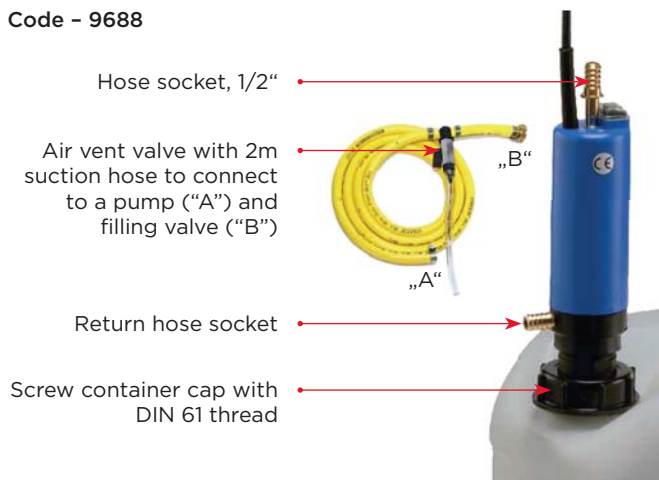


ELECTRIC FILLING AND TOP UP PUMP

featuring reliable low-noise piston pump that is easy to use. It connects directly to a 25l plastic container fitted with a DIN 61 thread. A thermocouple is integrated in the pump, protecting it against overheating and permanent damage.

All the components that get in touch with fluid are made of stainless steel or plastic.

Code - 9688



TECHNICAL DATA

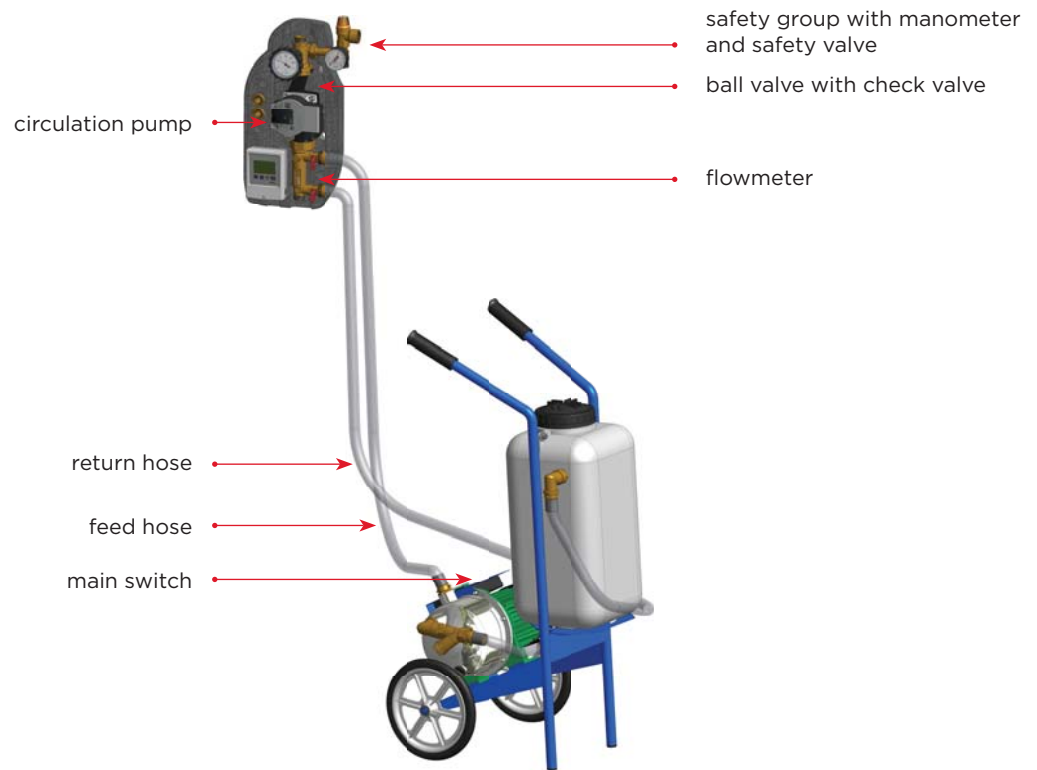
Power supply	230 V ~ 50 Hz, 50 VA
IP protection	IP64
Power supply cable	3 m
Weight	circa 2.3 kg
Dimensions	Ø 56 mm
	220 mm high
Connection	discharge side suction side
	6 mm or 1/2"
	6 mm
Suction hose length	0.5 m + filter
Connection thread	DIN 61

FILLING PUMPS

FILLING PUSH CART

with a powerful pump designed for professional filling and air venting of sealed systems like solar thermal systems, floor and wall heating circuits.

Code - 9561



ADVANTAGES OF THE FILLING CART

- powerful pump - 1.1 kW power input, 60 l/min. max. flow rate, 5 bar max. working pressure, pump housing in stainless steel
- splashproof switch
- maintenance-free pump with a start capacitor and protection against heat overload
- transparent pressure hoses for visual check
- ball valves at the hose ends for clean and safe connections
- filter to remove impurities from the system

TECHNICAL DATA

Electric motor	230 V / 1.1 kW
IP rating	IP44
Max. head	50m
Max. flow rate	60 l/min
Max. pressure	5 bar
Max. suction height	9m
Max. fluid temperature	35 °C
Power cable length	1.5m
Empty weight	16 kg

DESCALING CIRCULATION PUMPS

PRESSURE DESCALING PUMPS

designed to remove sediments with the use of chemicals. Equipped with a 4-way valve, they facilitate cleaning solution flow reversal for the best cleaning results.



BOSS 22 FI



DOS 40 V4V



BOSS 5 FI

		BOSS 22 FI	DOS 40 V4V	BOSS 5 FI
TANK VOLUME	l	22	30	5
FLOW RATE	l/min	30	70	30
HEAD	m	10	10	7
CONNECTION	--	1/2"	3/4"	1/2"
VOLTAGE	--	250 VAC/50 Hz	250 VAC/50 Hz	250 VAC/50 Hz
PUMP TYPE	--	rotary, 165 W	rotary, 290 W	rotary, 165 W
MAX. WORKING TEMPERATURE	°C	60	50	60
IP RATING	--	IP55	IP55	IP55
DIMENSIONS (H x W x L)	mm	500 x 350 x 350	630 x 350 x 350	440 x 330 x 330
WEIGHT	kg	9.5	11	8
CODE	--	590	7786	5990

DESIGN OF DOS PUMPS



DESIGN OF BOSS PUMPS



Note:

Use only chemical agents recommended by Regulus. Pipes, heat exchangers or systems to be cleaned must permit the solution to flow through.

CHEMICALS FOR DESCALING CIRCULATION PUMPS



DETEX PLUS

Cleaning solution intended for cleaning steel and copper surfaces using a descaling circulation pump.

Highly concentrated acid product for fast removal of scale, oxides and all kinds of strong saline compounds from inner surfaces of boilers, heat exchangers, pipes, heating and cooling systems.

TECHNICAL DATA

STATE	liquid
COLOUR	red*
ODOUR	haracteristic
pH	< 1
DILUTION	1:6 to 1:10

* The color may change during time. The efficiency is not compromised.

APPLICATION

Dilute Detex Plus with water in the ratio about 1:10. Keep adding more Detex Plus during cleaning until bubbles stop forming in the cleaning solution. When the solution stops forming foam, cleaning is finished. Check the pH value from time to time - in order for the solution to be efficient, its pH shall be about 1.

PACKAGING

Plastic container, 10 kg

Code - 18180

When cleaning is finished, flush the system with the Neutral Liquid neutralization solution which will remove any acid traces.

DESCALING PUMPS

Pressure descaling pumps designed to remove sediments with the use of chemicals. Equipped with a 4-way valve, they facilitate cleaning solution flow reversal for the best cleaning results.



Manual pump



BOSS 5 FI



DOS 40 V4V



BOSS 22 FI

CHEMICALS FOR DESCALING CIRCULATION PUMPS



DETEX PLURIMETAL

Cleaning solution intended for cleaning surfaces of **steel, stainless steel, copper, aluminium, brass, tin, light alloys and zinc-plated surfaces** using a descaling pump.

Highly concentrated acid product for fast removal of scale and rust from heating radiators, heat exchangers, cooling circuits.

It is complemented with balanced quantity of inhibitors, and therefore it does not cause damage to the surfaces to be cleaned when correctly applied.

APPLICATION

Dilute Detex Plurimetal in water in about 1:10 proportion. Keep adding more Detex Plurimetal if the solution turns yellow-orange until bubbles stop appearing in the cleaning solution. When the solution stops forming foam, cleaning is finished.

TECHNICAL DATA

STATE	liquid
COLOUR	red
ODOUR	vinegar
pH	< 1
DILUTION	1:6 to 1:10

PACKAGING

Plastic container, 10 kg

Code - 18181

When cleaning is finished, flush the system with the Neutral Liquid neutralization solution which will remove any acid traces.

DESCALING PUMPS

Pressure descaling pumps designed to remove sediments with the use of chemicals. Equipped with a 4-way valve, they facilitate cleaning solution flow reversal for the best cleaning results.



Manual pump



BOSS 5 FI



DOS 40 V4V



BOSS 22 FI

CHEMICALS FOR DESCALING CIRCULATION PUMPS



NEUTRAL LIQUID

Neutralization solution designed for fast and safe neutralization of acid fluids in the process of heating systems cleaning and for descaling pump flushing.

Service life of descaling pumps is longer with this product.

TECHNICAL DATA

STATE	liquid
COLOUR	colourless
ODOUR	odourless
pH	11
DILUTION	3:100

APPLICATION

1. Having finished cleaning, drain the descaling pump into a plastic container suitable for transport of fluids and subsequently dispose of this fluid following the valid laws and local rules.
2. Fill the pump tank with an appropriate volume of clean water with respect to the volume of the system being cleaned, add 2-3% of Neutral Liquid and flush the system for at least 5 minutes.
3. As soon as flushing is finished* and all the fluid has returned to the pump tank, drain its contents into the same containers as the cleaning solution earlier.

PACKAGING

Plastic container, 10 kg

Code - 4006

* If you need to measure a pH value, use a litmus paper or an electronic pH meter (the recommended pH value is between 6 and 8.5).

DESCALING PUMPS

Pressure descaling pumps designed to remove sediments with the use of chemicals. Equipped with a 4-way valve, they facilitate cleaning solution flow reversal for the best cleaning results.



Manual pump



BOSS 5 FI



DOS 40 V4V



BOSS 22 FI

PROTECTIVE SOLUTIONS FOR HEATING SYSTEMS



BP 100 PLUS

Protective fluid preventing corrosion of metals (iron, copper, aluminum etc.) and their alloys by forming a layer on the surface that prohibits its direct contact with fluids.

The fluid is made of organic compounds and is designed **for heating and cooling systems, solar panels and heat pumps** (it is compatible with antifreeze fluids).

TECHNICAL DATA

STATE	liquid
COLOUR	colourless
ODOUR	odourless
pH	7,5
DOSAGE	1l of product for 100l of fluid in system

PACKAGING

Bottle, 1l	Code - 18186
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BP 700A

Protective fluid preventing corrosion of metals (iron, copper, aluminum etc.) and their alloys by forming a layer on the surface that prohibits its direct contact with fluids.

The fluid is made of organic compounds and is designed **for heating and cooling systems, solar panels and heat pumps** (it is compatible with antifreeze fluids).



TECHNICAL DATA

STATE	liquid
COLOUR	opalesque
ODOUR	odourless
pH	7,5
DOSAGE	1l of product for 100l of fluid in system

PACKAGING

Bottle, 1l	Code - 18184
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APPLICATION

Use one liter of the product for each 100l heating water.

For heating circuits already heavily fouled or partially blocked by sludge or encrustation, initial treatment with BP 300 or BP 400 is recommended; let it circulate in the circuit for several weeks and then drain together with the sludge. After cleaning, fill the circuit with clean water mixed with one of the protective fluids.

PROTECTIVE SOLUTIONS FOR HEATING SYSTEMS



BP 400

Cleans and protects heating circuits. Allows dissolving and subsequent rinsing to remove **iron and magnesium hydroxide deposits**, calcium deposits, rust and sludge. Lubricates valves and pumps, improves heat exchange and returns heating circuits to their original efficiency. It also acts as an inhibitor of corrosion already present in the circuit. Thanks to its properties, it guarantees maximum heat exchange in the circuit and in the radiators. Suitable for systems in use for more than 6 months.

TECHNICAL DATA

STATE	liquid
COLOUR	colourless
ODOUR	odourless
pH	7
DOSAGE	1l of product for 100l of fluid in system

PACKAGING

Bottle, 1l	Code - 18183
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BP 300

It is used to remove **scale, calcareous sediments**, dirt and solder flux remnants, which renews the heating efficiency. It offers protection against corrosion, reduces or completely eliminates boiler noise. Ideal for new heating and cooling systems (max. 6 months in operation). The product is compatible with all metals and materials currently used in heating systems.



TECHNICAL DATA

STATE	liquid
COLOUR	opalesque
ODOUR	weak
pH	7
DOSAGE	1l of product for 100l of fluid in system

PACKAGING

Bottle, 1l	Code - 8781
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APPLICATION

First drain the system and fill it with plain water. Add 1l of the product for each 100l of heating water; either via an expansion vessel, filling valve, radiator or using a pump.

If the water hardness exceeds 14 °dH (hard water), increase the concentration to 2%, and if it exceeds even 20 °dH (very hard water), then to 3%. Increase the concentration in a similar way if the system is heavily fouled by sludge.

Let the solution circulate, preferably in a warm circuit, for 24 hours (BP 300) / min. 8 days (BP 400). The time of application depends significantly on the condition of the heating system. For large or heavily fouled systems it may be necessary to repeat the process.

Drain the system in order to remove dissolved remains of sludge, and finally flush it with clean water.

It is recommended to fill the circuit with clean water after cleaning, if needed, add BP 100 or BP 700A that will form a protective layer, preventing deposition of calcareous sediments and corrosion.

CLEANING SOLUTIONS FOR HEATING SYSTEMS



BP 800

Cleaning anti-corrosion fluid for older heating and A/C systems that cleans heat-transfer surfaces from sediments of metal oxides and sludge that cleans, lubricates and restores proper circulation. It facilitates formation of protective coating and can be used for all metal materials incl. aluminium.

TECHNICAL DATA

STATE	liquid
COLOUR	opalesque
ODOUR	characteristic
pH	7
DOSAGE	1l of product for 100l of fluid in system

PACKAGING

Bottle, 1l	Code - 18948
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APPLICATION

First drain the system and fill it with plain water. Add 1l of the product for each 100l of heating water.

If the system is heavily contaminated, a higher dose might be necessary.

Let the solution circulate in the circuit using a (descaling) circulation pump for about 45 min.

It is recommended to fill the circuit with clean water after cleaning, if needed, add BP 100 or BP 700A that will form a protective layer, preventing deposition of calcareous sediments and corrosion.

LEAK SEALANTS FOR HEATING SYSTEMS



BP STOP LEAK

Sealing fluid with inorganic base designed for sealed heating circuits.

Stop Leak is a fluid designed to seal minor leaks in heating systems in metal or plastic, for leaks of about 100-150l per 24 h.

When dosed into a heating system, it starts sealing slowly the microleaks caused by corrosion or defect connections exploiting contact with oxygen from outside the leak.

Intended for:

- metals, plastic materials
- repairs of pipes, connections

TECHNICAL DATA

STATE	liquid
COLOUR	colourless
pH	8.5

PACKAGING

Bottle, 1l	Code - 14624
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APPLICATION

Stop Leak comes ready for use, easy to apply.

Due to its thick consistency, it is recommended to dilute Stop Leak with water first (5-10%) to permit easy application into a heating system.

1. Shake well prior to use!
2. Dose 1 litre of the agent per every 100l water.
3. Let it circulate in a heating system until the leaks stop completely. To seal minor leaks, 2-3 hours will be sufficient.
4. In case of bigger leaks, sealing may last even more than 7 days.
5. During the application, strainers from filters shall be removed. The system need not be drained.
6. Presence of antifreeze and anticorrosion additives, salts and other additives may have disruptive influence on the efficiency of the agent.

LEAK SEALANTS FOR HEATING SYSTEMS



EPOSTIX

Two-part epoxy putty for quick repairs of cracks and holes.

Suitable for:

- metals, plastic, wood
- underwater repairs on pipes, pools, tanks, joints, permanent seals; in the house, on a car, boat or camper

TECHNICAL DATA

STATE	putty - solid after hardening
COLOUR	white and yellow-brown
PRESSURE RESISTANCE	up to 150 MPa
TEMPERATURE RESISTANCE	up to 450 °C

PACKAGING

Tube, 50g

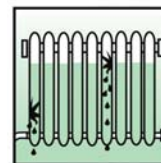
Code - 10281

APPLICATION

Clean the spot to be repaired by removing rust, dirt and encrustation, cut off a sufficient portion of Epostix and knead it with your hand in a wet glove.

Press the mass onto the spot concerned. Remove excess material and smoothen the surface by hand.

- The putty shall be processed within 2 minutes.
- Toughening time is 20 minutes.
- Curing is complete after 1 hour.
- Do not use for pressurized pipes.



CHEMICALS FOR BOILER CLEANING AND MAINTENANCE



ALU CLEANER

Two-step cleaning product designed for cleaning aluminum combustion chambers in condensing gas boilers, containing corrosion inhibitors, suitable also for aluminum alloy heat exchangers. After application of the A product, treatment with the B product shall follow unconditionally.

TECHNICAL DATA

STATE	liquid
COLOUR	pale yellow
ODOUR	strong

PACKAGING

2 plastic containers, 10 kg each	Code - 13249
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APPLICATION

ALU CLEANER A – strong alkalineý (pH 13)

Spray an ample amount of the product on the fouled surface using a suitable spray gun. Let it act for 5-15 minutes depending on the degree of contamination. Pressure wash thoroughly. In case of a heavily fouled surface, repeat the procedure. Continue with the application of Alu Cleaner B after the last washing.

ALU CLEANER B – strong acid (pH < 2)

Alu Cleaner B shall be applied only after treatment with Alu Cleaner A. Using a suitable spray gun, spray an ample amount of the product on the surface already treated with the A product so that the entire surface is wet. Let it act for 2-5 minutes depending on the degree of contamination. Wash thoroughly with water.



CHEMICALS FOR BOILER CLEANING AND MAINTENANCE



THERMONET

Cleaning powder intended to dissolve soot and unburnt combustion residues in all types of boilers burning either liquid fuel (diesel fuel, kerosene, heating oil) or solid fuel (wood, coal, pellets). It removes corrosive sediments and oxides, improves the combustion quality and efficiency while acting even at the worst accessible spots in a combustion chamber. It is efficient against corrosion caused by sulphur and corrosive components in diesel and heating oils.

TECHNICAL DATA

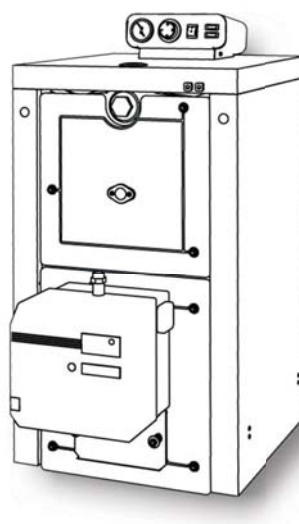
STATE	solid - powder
COLOUR	white
ODOUR	none

PACKAGING

Bar, 200 g	Code - 16633
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APPLICATION

For boilers up to 40 kW, insert 2 bars in their packaging directly into the combustion chamber of a boiler. The following day insert half the dose. In order to maintain the top efficiency of your boiler, repeat this procedure every 15-20 days.



CHEMICALS FOR BOILER CLEANING AND MAINTENANCE



METANO THERM

Cleaning solution designed for cleaning **heat-transfer surfaces**, heat exchangers and flueways of **gas and oil boilers**. Stable boiler output is kept, impurities and sediments removed that damage metals, even from inaccessible spots.

The product can be used as prevention to limit scale formation. Concentrated, purely alkaline reaction product, intended for easy removal of soot and unburnt sediments.

Spraying will cause a foamy alkaline reaction that neutralizes the acidity of existing sediments. At the same time, a special component penetrates the encrustation and softens it, contributing to a better boiler ignition and crust separation from the walls.

Crusts and sediments treated with Metano Therm will be partially burnt and partially precipitated.

APPLICATION

Metano Therm is applied by spraying.

Start at the highest point and spray thoroughly all the crusts and surfaces you wish to treat.

After 3-4 minutes ignite the boiler and let it warm up to its operation temperature.

Turn it off after 10-15 minutes and let it cool down. Vacuum-clean the crusts from the flueways and combustion chamber.

Should the crusts remain resistant, repeat the process and let Metano Therm act for even several hours.

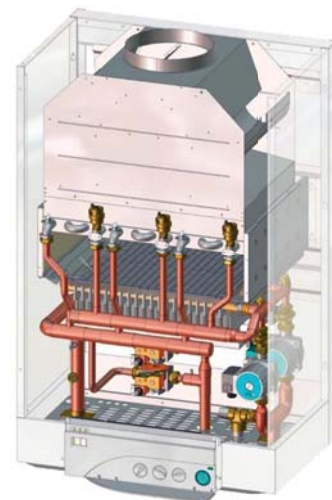
TECHNICAL DATA

STATE	liquid
COLOUR	light blue
ODOUR	characteristic
pH	10

PACKAGING

Spray - aerosol can, 400 ml

Code - 1977



CHEMICALS FOR BOILER CLEANING AND MAINTENANCE



ZINKALL

Aerosol with a high content of zinc, designed for cold zinc plating, highly resistant to corrosion caused by weather, salt, water.

Contains zinc powder, the total zinc content is at least 95%, further aluminum paste, petroleum resins, plasticizers, aromatic and aliphatic solvents.

Ideal for application on welded connections, pipes, tanks, in chemical plants, for pumps, masts and structures.

TECHNICAL DATA

STATE	aerosol
COLOUR	silver metallic
ODOUR	solvent-like

PACKAGING

Spray - aerosol can, 400 ml	Code - 428
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APPLICATION

Shake the bottle vigorously until you hear rattling of balls that are inside to stir perfectly the contents. Then continue shaking for at least 10 sec.

Apply on a clean dry surface with slow movements from at least 30cm distance.

Having finished spraying, turn the bottle upside down and press the valve in order to clean the nozzle.

THREAD SEALANTS



SISEAL

Methacrylate thread sealant with PTFE for metal joints, resistant to vibrations and temperature fluctuations. A replacement for hemp and PTFE tapes (Teflon®). The product hardens between metal threads with no air access. Its medium mechanical resistance permits disassembly using current tools, even after several years.

Suitable for:

- threaded metal joints up to 2" diam.
- domestic and industrial use for water, air, gas, diesel, LPG etc.

Siseal is neither suitable for use in oxygen circuits, nor to seal systems containing strongly oxidizing acids or alkaline agents.

Shelf life:

At least 12 months when stored between 5 °C and 28 °C.

TECHNICAL DATA

CERTIFICATE	following EN 751-1, by VÜPS - AO 227
COLOUR	blue
PRESSURE RESISTANCE	up to 1 MPa
TEMPERATURE RESISTANCE	- 50 °C to 130 °C

PACKAGING

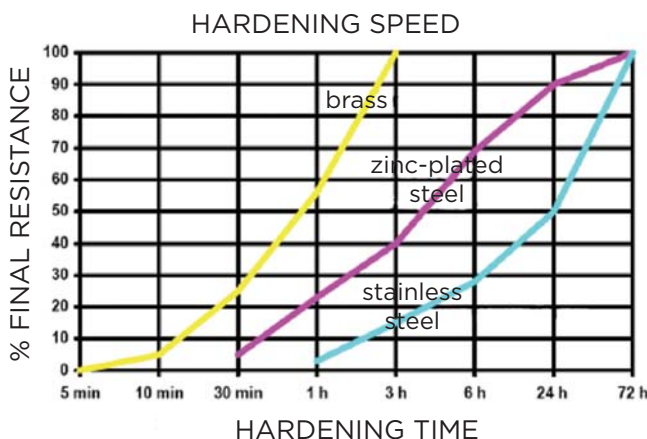
Tube, 50 g	Code - 931
Tube, 100 g	Code - 436
Tube, 250 g	Code - 520

APPLICATION

Threaded surface shall be cleaned and degreased first (chrome-plated threads need to be coarsened). Apply the sealant to the margin threads, inner and outer, in small amount in order to fill the gap between the parts to be joined. The approximate consumption is 0.5g for a 1/2" thread. A slight reverse turn is possible during assembly without compromising the tightness. 10 minutes after the assembly the joint resists 1 MPa pressure.

The final hardening time depends on the material and temperature. The ideal hardening temperature lies between 20°C and 25°C. Temperatures between 5°C and 20°C will slow down the hardening speed, temperatures above 25°C will speed it up. For example, brass joint at 20°C should be hard within 2-3 hours. The graph shows the behaviour of Siseal with some metals.

The tests were done with M10 screws and measured according to ISO 10964 standard.



THREAD SEALANTS



TWINE-SEAL 240

Dynamic PTFE filament with a special gel (packed separately in the bottom section dispenser) designed for pipe thread sealing.

Functionally stable in the range between -200°C and +240°C. Working pressure 100 bar under room temperature. The product does not melt, dissolve or turn fragile, it remains soft and flexible. It is incombustible.

Suitable for:

- metal and plastic threaded joints up to 240°C suitable for solar systems
- natural gas, LPG, hot and cold water, drinking water, steam, oils, solvents, fuels

TECHNICAL DATA

CERTIFICATE	following EN 751-3 FRp and GRp, WRAS, BAM, UL
COLOUR	filament - white gel - yellow-green
PRESSURE RESISTANCE	up to 10 MPa
TEMPERATURE RESISTANCE	-200 to +240 °C

PACKAGING

175m roll in a plastic dispenser

Code - 10293

APPLICATION

Start at the end of the pipe and wind Twine-Seal 240 in the direction of the thread, run the filament crosswise randomly. The number of turns depends on the thread diameter.

Recommended quantity: 1/2" pipe 12-18 turns, 1 1/2" pipe 16-24 turns.

Apply 2-3 drops of the special ingredient from the bottom dispenser on the threads and smear it onto the filament with your finger. Screw together.



THREAD SEALANTS

Tangit UNI-LOCK



Polyamide filament coated with inert protective paste intended for pipe thread sealing. The product replaces hemp and PTFE tapes (Teflon®). It is suitable also for sealing drinking water and gas pipes. Tight immediately after screwed together.

Suitable for:

- metal and plastic threaded joints up to 6" diameter (cast iron, steel, brass, copper, chrome- and nickel-plated surfaces, other galvanized surfaces, stainless steel and plastic components) for temperatures up to 130°C
- drinking and waste water (both cold and hot), gas, pressurized air and industrial oils

The product shall not be used for pure oxygen or for systems rich in oxygen, chlorine or other strongly oxygenated substances, nor for fuel, diesel oil or heating oil.

APPLICATION

Clean the threads and roughen them if needed. Wind the stretched sealing filament around the threads and also crosswise (following the thread direction from the pipe end). A precise position in grooves is not necessary. The number of turns depends on the thread diameter.

PIPE DIAMETER	NUMBER OF TURNS
1/2"	6-7
3/4"	7-9
1"	8-12
6/4"	10-15
2"	15-25
2 1/2"	20-30
3"	25-35
3 1/2"	30-40
4"	35-45

TECHNICAL DATA

CERTIFICATE	following EN 751-2 and DIN 30660 through DVGW
COLOUR	white
WORKING OVERPRESSURE	gas: up to 0.5 MPa drinking water: up to 1.6 MPa hot water: up to 0.7 MPa
WORKING TEMPERATURE	gas: - 20 to + 70 °C drinking water: up to 95 °C hot water: up to 130 °C

PACKAGING

160 m roll in an ergonomic plastic dispenser	Code - 5783
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In order to connect plastic materials, a double number of turns is needed.



THREAD SEALANTS

KOLGAS-UNI

Plastic sealing paste intended for both threaded and flanged connections, to be used with hemp. It is suitable for pipes with natural gas, hot and cold water, drinking water and steam. It remains soft and elastic and is absolutely non-toxic, prevents oxidation and features anti-corrosion effects.

Suitable for:

- use with hemp, mineral fibre gaskets, asbestos-free gaskets and rubber O-rings
- natural gas, hot and cold water, drinking water and steam

KOLGAS-UNI shall never be used for LPG and oxygen.



TECHNICAL DATA

CERTIFICATE	UNI - EN 751/2 A-Arp class approved by WRAS
COLOUR	green
PRESSURE RESISTANCE	gas: up to 0.5 MPa water and steam: up to 0.7 MPa
TEMPERATURE RESISTANCE	gas: - 35 to + 70 °C water and steam: - 35 to +130 °C

PACKAGING

Plastic container with lid 400g	Code - 10279
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HEMP

APPLICATION

Clean the thread and make it coarse. Wind hemp on the thread, apply the paste and screw in. The paste facilitates easy assembly, and thanks to its permanent elasticity, also easy dismantling.

PACKAGING

Bag, 1 000g	Code - 10289
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