

ANTI-SCALE CONDITIONING

Calcareous scale is caused by the presence of calcium and magnesium salts dissolved in water in the form of soluble bicarbonates.

Through the effect of heat, these salts are transformed into insoluble carbonates and tend to agglomerate as crystals, forming calcareous scale on the surface of pipes, coils and storage tanks used for the production of hot water for domestic or industrial use.

Over time, the scale obstructs pipes and forms thick encrustations in heating systems. This leads to inefficiency and to a drastic reduction in energy output, as well as to high servicing and maintenance costs.

WATER HARDNESS

The quantity of calcium and magnesium salts dissolved determines the "hardness" of the water, which is generally measured in French degrees (°f). One French degree corresponds to 10 ppm of CaCo₃ (calcium carbonate).

Classification of water on the basis of hardness:

Soft water: below 5 °f.


Moderately hard water: from 5 to 7 °f.

Water of average hardness: from 8 to 12 °f.

Hard water: from 13 to 25 °f

Extremely hard water: 26 °f and beyond.

Water hardness can be tested rapidly using EASYTEST strips, or more accurately using the HARDNESS CONTROL KIT.



CODE	PRODUCT
RE8000011	EASY TEST TH IN BLISTER WITH 5 STRIPS
RE8000111	EASY TEST TH IN PACK WITH 50 BLISTERS

				Total hardness °f
Green	Green	Green	Green	5°
Purple	Green	Green	Green	7°
Purple	Purple	Green	Green	12°
Purple	Purple	Purple	Green	25°
Purple	Purple	Purple	Purple	37°

ANTI-SCALE TREATMENT WITH POLYPHOSPHATES (CHEMICAL CONDITIONING)

Polyphosphate treatment is a simple, effective and economic solution for the problem of scale deposits. When dissolved in water, the polyphosphate prevents the formation of calcium

carbonate encrustation by acting upon its crystallization, without affecting the hardness of the water. Over time, it also tends to break down existing deposits. Polyphosphates also provide effective protection against corrosion by creating a thin protective film on the surface of the pipes, coils and water heaters.

- Proportional dosing systems with polyphosphate powder or ready-to-use refill **DOSAPLUS.**

Designed for the use with drinking water.

- Proportional dosing systems with polyphosphate crystals **DOSAPROP and DOSAPROP-HA.**

Designed for the use with drinking water.

- Non-proportional dosing systems with polyphosphate crystals **DOSAFOS, DOSAFOS-HA, and DOSAL.**

These dosing systems are designed for "technical" applications which are not intended to provide drinking water.

ANTI-SCALE TREATMENT WITH MAGNETIC SYSTEMS (PHYSICAL CONDITIONING).

The water is conditioned using a magnetic field which modifies the structure of the calcium and magnesium salt crystals, preventing the formation of calcium carbonate encrustations. It does not alter the hardness of the water or its salt content. This type of treatment does not provide protection against corrosion.

- Magnetic anti-scale systems **MAG conditioners.**

MAG are designed for household use for the treatment of drinking water.