



**MARINE
CARE**

CARETREAT HARDNESS CONTROL

Organic polyphosphate for Hardness Control in Steam boilers and Hotwater systems

DESCRIPTION

Caretreat Hardness Control, is a traditional boiler water treatment product, for distortion of scale build and for Calcium and Magnesium Hardness Sludge dispersion. Caretreat Hardness Control is a liquid product based on organic polyphosphates. Caretreat Hardness control is used on boiler make up water with traces of hardness. Caretreat Hardness Control is used in conjunction with Caretreat Alkalinity Control and Caretreat Hydrazide (or other Caretreat Boiler treatment products).

ADVANTAGE

- the polyphates take care of dispersing sludge and protection against scale build-up
- non-toxic product
- low conductivity contribution, saves water and energy
- simple and accurate testing

APPLICATIONS

Caretreat Hardness Control can be used in any type low and medium pressure boilersystem.

Caretreat Hardness Control can be used in the following Make-up water:

- evaporated water
- reversed osmosis water
- demineralised water
- softened water

- Excellent:
 - > scale distortion
 - > sludge dispersion
- Concentrated liquid product



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DIRECTIONS FOR USE

Standard water treatment:

Caretreat Hardness Control can be added directly to the feed water. We strongly recommend this is done by using a dosing pump. Never mix the product with other boiler water additives directly but dose separately. The product is preferably pored in to the Hotwell.

Control limits

The boiler water must meet the following conditions:

p-Alkalinity	: 100-280 ppm CaCO ₃	
Chlorides	: max. 300 ppm Cl ⁻	(Low pressure boilers)
	: max. 100 ppm Cl ⁻	(Medium pressure boilers)
pH	: 9.5 to 10.8	
Conductivity	: 400 to 2000 μS/cm	(Low pressure boilers)
	: 400 to 1000 μS/cm	(Medium pressure boilers)
Phosphate	: 25-45 ppm PO ₄ ³⁻	
Hydrazide	: 0.8 - 1.5 ppm	

Initial dosage

0.25 liter per ton boiler contents.

Daily dosage

Recheck phosphate level and increase dosage of Caretreat Hardness Control if necessary to maintain the desired phosphate level. This dosage depends on the steam production.

DOSING SYSTEMS

Marine Care supplies a complete range of dosing systems, from manual operated systems, to custom built computer operated high tech systems, for every application.

TEST KIT

Marine Care supplies a test kit for the analysis of Phosphate in boiler water.

PROPERTIES

pH	11,6
Density	1,28 g/cm ³
Flashpoint	Not applicable
Physical state	Liquid

For detailed information on safety and health, please refer to the Material Safety Data Sheet MSDS and/or product label.



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