



**MARINE  
CARE**

# CARETREAT OXYGEN CONTROL DH

**Boiler water oxygen scavenger on DEHA basis  
for use in all types boiler systems**

## DESCRIPTION

Caretreat OXYGEN CONTROL DH is a concentrated liquid organic amine based product. The product removes oxygen rapidly in the boiler water. Caretreat OXYGEN CONTROL DH further prevents corrosion by oxygen and is an excellent passivator of steel surfaces. Caretreat OXYGEN CONTROL DH also neutralizes acids that tend to carry over to the condensate system. Caretreat OXYGEN CONTROL DH does not form carbon dioxides. Due to its volatility, Caretreat OXYGEN CONTROL DH acts as an oxygen scavenger throughout the entire boiler system due to steam carryover and reacts with ferrous metals to form a passivated film of magnetite throughout the boiler system. Caretreat OXYGEN CONTROL DH is a safe to use and environmentally friendly product in comparison most of the equivalent oxygen scavengers.

## ADVANTAGE

- prevents corrosion in LP/MP boiler systems (condensate/feedwater/boiler)
- environmentally safe, non-toxic product
- simple and accurate testing
- effective under all operating conditions

## APPLICATIONS

Caretreat OXYGEN CONTROL DH can be used in any type low, medium and high pressure boiler system. Caretreat OXYGEN CONTROL DH can be used in the following systems:

- evaporated
- feedwater
- boiler
- deaerator

## DIRECTIONS FOR USE

*Standard water treatment:*

Caretreat OXYGEN CONTROL DH can be added directly to the feed water. We strongly recommend this is done by using a dosing pump. In High pressure boilers it is recommended to dose Caretreat OXYGEN CONTROL DH in the deaerator.

- Environmentally friendly
- Low product consumption
- Simple testing
- No (sulfate) deposits
- Prevents corrosion



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## CARETREAT OXYGEN CONTROL DH

It is also recommended to continually dose Caretreat OXYGEN CONTROL DH in conjunction with other Caretreat boiler water treatment products.

### Control limits

The boiler water must meet the following conditions:

p-Alkalinity	: 100-280 ppm CaCO <sub>3</sub>	
Chlorides	: max. 300 ppm Cl <sup>-</sup>	(Low pressure boilers)
	: max. 100 ppm Cl <sup>-</sup>	(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 <sub>4</sub> <sup>3-</sup>	
OXYGEN CONTROL DH	: 0.1 - 0.3 ppm	

### Initial dosage

Caretreat OXYGEN CONTROL DH is initially dosed in the feedwater line, based on the amount of dissolved oxygen. Water with a temperature of 60-80 °C has a maximum of 5 ppm dissolved oxygen. To remove 5 ppm of dissolved oxygen 100 ml Caretreat OXYGEN CONTROL DH is added to the feedwater system, per tonnage of boiler volume. After dosing and circulation of the boiler water, the concentration of Caretreat OXYGEN CONTROL DH is analyzed and should be 0.3 ppm. When the concentration is lower than 0.1 ppm another 25 ml Caretreat OXYGEN CONTROL DH is dosed per ton boiler volume.

### Daily dosage

The concentration of Caretreat OXYGEN CONTROL DH should be analyzed daily and the value should be kept at 0.1-0.3 ppm. Generally dosing of Caretreat OXYGEN CONTROL DH is 5-15 ml per day per ton boiler volume.

### TEST KIT

Caretreat OXYGEN CONTROL DH concentration can be analyzed with the Marine Care test kit Oxygen Scavenger.

### 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.

### PROPERTIES

pH	10
Density	1.03 g/cm <sup>3</sup>
Flashpoint	Not applicable
Physical state	Liquid

### APPROVALS

IMO Approved

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

- Environmentally friendly

- Low product consumption

- Simple testing

- No (sulfate) deposits

- Prevents corrosion

- Suitable for every type of boiler type (LP/MP/HP)



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