



**MARINE  
CARE**

# CARETREAT OXYGEN CONTROL

## Boiler Water Oxygen Scavenger on hydrazide basis for use in all types boiler systems

### DESCRIPTION

Caretreat Oxygen Control is a concentrated liquid organic amine based product. The product removes oxygen rapidly in the boiler water. Caretreat Oxygen Control further prevents corrosion by oxygen and is an excellent passivator of steel surfaces. Caretreat Oxygen Control also neutralizes acids that tend to carry over to the condensate system. Caretreat Oxygen Control is a safe to use and environmentally friendly product in comparison most of the equivalent oxygen scavengers.

### ADVANTAGE

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

### APPLICATIONS

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

- evaporated
- feedwater
- boiler
- deaerator

### DIRECTIONS FOR USE

*Standard water treatment:*

Caretreat Oxygen Control 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 in the deaerator. It is also recommended to continually dose Caretreat Oxygen Control in conjunction with other Caretreat boiler water treatment products.

- Environmentally friendly
- Low product consumption
- Simple testing
- No (sulfate) deposits
- Prevents corrosion
- Suitable for every type of boiler type (LP/MP/HP)



**MARINE CARE BV**  
Oude Maasweg 35  
Port number 4005  
3197 KJ Rotterdam Botlek  
The Netherlands  
T. +31 (0)10 2950342  
F. +31 (0)10 2950345  
E. [supply@marinecare.nl](mailto:supply@marinecare.nl)  
W. [www.marinecare.nl](http://www.marinecare.nl)



# MARINE CARE

CARETREAT  
HYDRAZIDE

## 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>	
Hydrazide	: 0.8 - 1.5 ppm	

## Initial dosage

Caretreat Oxygen Control 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 125 ml Caretreat Oxygen Control 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 is analyzed and should be > 1 ppm. When the concentration is lower than 1 ppm another 25 ml Caretreat Oxygen Control is dosed per ton boiler volume.

## Daily dosage

The concentration of Caretreat Oxygen Control should be analyzed daily and the value should be kept at 0.8-1.5 ppm. Generally dosing of Caretreat Oxygen Control is 5-15 ml per day per ton boiler volume.

## TEST KIT

Caretreat Oxygen Control 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

Article number	14408
pH	7-9
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)



**MARINE CARE BV**  
Oude Maasweg 35  
Port number 4005  
3197 KJ Rotterdam Botlek  
The Netherlands  
T. +31 (0)10 2950342  
F. +31 (0)10 2950345  
E. [supply@marinecare.nl](mailto:supply@marinecare.nl)  
W. [www.marinecare.nl](http://www.marinecare.nl)