



**MARINE  
CARE**

# CARETREAT SOOT

**Vaporizing powder mix for the reduction of deposits and corrosion in oil fired boilers and stacks**

- Improves boiler efficiency
- Improves fuel efficiency
- Prevents LTC
- Easy to apply

## DESCRIPTION

Caretreat Soot is a powder product to reduce deposits and corrosion in the boiler and stack. The product can be applied to all type of oil fired boilers. The components in the product will vaporize by the combustion heat. The vapor will create a reaction with sulfur to sulfurdioxide. Sulferdioxide leaves the boiler with the exhaust gasses, not being able to form sulfertrioxide what can condensate at the low temperature parts to form the highly corrosive sulfuric acid. The modified sulfur oxides combined with vanadium complexing compounds prevent the formation of harmful low melting point sodiumvanadyivanadates. Caretreat Soot acts as well as a catalyst, by lowering the ignition temperature of the soot particles.

## ADVANTAGES

- Reduces soot and ash deposits
- Eliminates the risk of hazardous soot fires
- Prevents sulfuric acid forming, reducing the risk of corrosion
- Induces fuel efficiency
- Increases heat transfer resulting in better boiler efficiency
- Minimizes cleaning and maintenance cost

## APPLICATION

Caretreat Soot is a specially developed powder what is easily dosed into the system, using the Marine Care Air assisted powder injector. The powder vaporizes on contact with the hot exhaust gas. The combustion temperature should be far above the products sublimation point of 350 °C.

The active material reacts with the soot particles to create light, dry and non-adherent soot particles that easily pass through heat exchangers and stack. The remaining deposit is friable and can easily be removed by conventional soot blowing.



**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

## DIRECTIONS FOR USE

### Dosage

Initial dosage for fouled boilers should start at 130 grams per m<sup>3</sup> fuel burnt in 24 hours. The calculated dose should be divided into 3 equal parts and dosed at 8 hour intervals. As conditions improve, the dosage can be progressively reduced to a minimum of 30 grams per m<sup>3</sup> fuel burnt in 24 hours.

Once every 24 hours soot should be blown at least 1 hour after the last injection of Caretreat Soot.

If a boiler has never been treated and is highly contaminated, double the initial figures. This dosing regime can be applied for the first 2 weeks.

## INJECTION SYSTEMS

An air operated powder injector can be supplied by Marine Care. Its discharge tube should be mounted through a combustion chamber sighting orifice or a special dosing access point. If possible, the injection should be changed frequently to assist distribution throughout the boiler.

## DOSAGE

See Direction for Use

## PROPERTIES

pH	Not applicable
Density	1,56 g/cm <sup>3</sup>
Flashpoint	Not applicable
Physical state	Powder

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

## CARETREAT SOOT

- Improves boiler efficiency
- Improves fuel efficiency
- Prevents LTC
- Easy to apply



**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)