

YOUR CHEMICAL  
SOLUTION  
PROVIDER



StarMarine

C H E M I C A L S

# SOOT

**Vapourising powder for the reduction of deposition and corrosion in boilers.**

- \* Modifies soot making it less adherent.
- \* Reacts with sulphur, avoiding sulphuric acid formation.
- \* Reduces vanadium slagging.
- \* Enhances soot blowing.
- \* Reduces fire risk in uptakes.

## APPLICATION

Soot is suitable for all types of oil fired boilers.

It is injected into the combustion chamber and vaporises. The vapor mixes with the combustion gases and reacts with sulphur oxides, which remain as sulphur dioxide (SO<sub>2</sub>) instead of sulphur trioxide (SO<sub>3</sub>) which normally combines with water (H<sub>2</sub>SO<sub>4</sub>).

The modified sulphur oxides combine with vanadium compounds and prevent the formation of harmful low melting point sodium vanadyl vanadates.

Soot greatly improves soot-blowing efficiency and makes boiler cleaning an easier task.

## DIRECTIONS FOR USE

### Dosage

Initial dosage for dirty boilers should start at 130 gr. 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 gr. 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 Soot. If a boiler has never been treated and is very dirty, double the initial figures can be used for the first 2 weeks.



StarMarine

C H E M I C A L S

Bunschotenweg 134 - 3089KC Rotterdam - Harbournumber 2696 - The Netherlands  
Tel: +31(0)105925831 Mob: +31(0)643065133 e-mail: [info@starmarine.nl](mailto:info@starmarine.nl)  
VATnr. NL859322968B01 Chamber of Commerce: 73019704

## **Injection**

An air operated powder injector can be supplied by StarMarine

Its discharge tube should be put 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.

## **PROPERTIES**

A blue, neutral powder with a sublimation point of 350°C.

Flash point	:	none
pH (1% solution)	:	approx. 7
Storage	:	keep cool and dry.

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

*For detailed information on safety and health, please refer to Material Safety Data Sheet and / or Product label.*

Star Marine is a specialist chemical manufacturer and any directions for the use and application of its chemicals are provided in good faith. This information is based on experience and research but is not intended to be a definitive statement for the use of the chemical or to be taken as complete process advice. While the company, its management and employees will share what knowledge they have and make recommendations, this information can never give rise to liability or consequential damage from third parties. Any information provided regarding the chemical does not exempt the customer from examining the product and its directions for use to determine the suitability themselves for its intended purpose.

