



OXYGEN SCAVENGER (DEHA BASE)

OXYGEN SCAVENGER, DIRECT REPLACEMENT OF
HYDRAZINE

FEATURES & BENEFITS:

- Fast acting liquid oxygen scavenger that is easy to dose
- Organic corrosion inhibitor and excellent passivator of metal surfaces
- Reduces corrosion in all pre-boiler condensate / feedwater system compounds
- Helps neutralise the acids that carry over into the condensate system
- Can be used with both SHERAN CHEMICALS combined or fully coordinated boiler treatments
- Prevents corrosion
- Does not increase dissolved solids
- Reduces corrosion of copper and iron, increasing the life and reliability of the boiler system
- Simple to test and control using the SHERAN CHEMICALS TEST KIT OXYGEN SCAVENGER DEHA
- Reduces chemical cleaning requirements
- Prolongs the life of the system and reduces downtime caused by bad maintenance
- Economical to use

PRODUCT DESCRIPTION:

OXYGEN SCAVENGER is a liquid compound containing carbohydrazide for rapid removal of free oxygen in any type of boiler of any pressure as well as any type of non-drainable superheater. OXYGEN SCAVENGER is the alternative for hazardous and potentially carcinogenic products and provides the advantages of an environmentally friendly and safe product.

The compound carbohydrazide is a form of bounded hydrazine that reacts with oxygen in the same way as normal hydrazine would do. But carbohydrazide has all the advantages of hydrazine and none of the disadvantages. According to the latest MARPOL regulations (waste annex) OXYGEN SCAVENGER is considered non-pollutant.

APPLICATIONS:

OXYGEN SCAVENGER is used for rapid removal of oxygen in boiler feedwater and condensate systems. OXYGEN SCAVENGER further prevents corrosion caused by oxygen. OXYGEN SCAVENGER may be used in all types of boilers, but is particularly suited for use in high-pressure boilers. OXYGEN SCAVENGER can be used as passivation in LAY-UP boilers. OXYGEN SCAVENGER can also be used with both combined water treatment and fully coordinated water treatment.

DIRECTIONS FOR USE:

OXYGEN SCAVENGER is added continuously to the boiler by means of a SHERAN CHEMICALS dosing unit. In high-pressure boilers, the dosing is preferably done with a dosing pump at the de-aerator.

For low-pressure boilers, the product can be dosed direct into the feed line after the return to the hot well. The amount of OXYGEN SCAVENGER that should be dosed depends on the feedwater temperature and the amount of oxygen present in the feedwater. As a rule of thumb, 22.5 ml/L of OXYGEN SCAVENGER will react with 1 mg/L oxygen in the water.

Because oxygen is dissolved into water at different temperatures and oxygen/CO₂ can be mechanically removed from the boiler feedwater, oxygen/CO₂ can be at different concentrations, dependent of the type of boiler and type of system. Because of this given fact, the stating dosage of OXYGEN SCAVENGER can be different with every boiler type.

The procedure to dose OXYGEN SCAVENGER is as follows:

1. Add 22.5 ml OXYGEN SCAVENGER per 1000 L boiler content.
2. Measure the concentration of OXYGEN SCAVENGER present in the water after circulating (when the boiler water does not contain oxygen the OXYGEN SCAVENGER concentration should be 1 mg/L).
3. When there is no more OXYGEN SCAVENGER present in the boiler water repeat the first two steps until a concentration of 1 mg/L OXYGEN SCAVENGER is reached.

The concentration of OXYGEN SCAVENGER should be measured daily and should be between 0.8 and 1.5 mg/L. The analysis can be done using the SHERAN CHEMICALS TEST KIT OXYGEN SCAVENGER DEHA.

STANDARD PACKING:

OXYGEN SCAVENGER is usually available in plastic cans of 25 L.