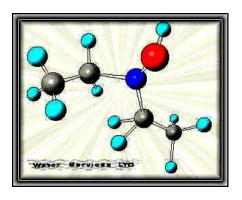


# OXYTREAT – 15

(A new oxygen scavenger – based on DEHA)



## **DESCRIPTION**

OXYTREAT-15 is a new technology oxygen scavenger designed to substitute Hydrazine and Sulfite, which are traditionally, used for this purpose in all boilers high and low pressure.

# **Limitation of Sulfite and Hydrazine**

Equations 1 and 2 show the reaction of Sulfite and Hydrazine with oxygen.

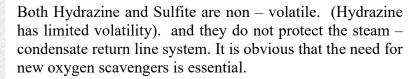
$$2 \text{ Na}_2\text{SO}_3 + \text{O}_2 = 2 \text{ Na}_2\text{SO}_4$$
  
 $\text{N}_2\text{H}_4 + \text{O}_2 = \text{N}_2 + 2 \text{ H}_2\text{O}$ 

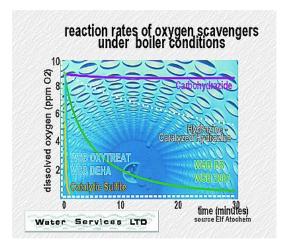
Each however has limitations.

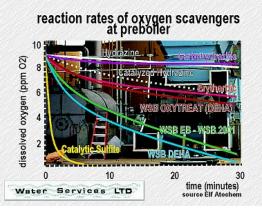
Sulfite increases the total dissolved solids in the boiler water through the formation of Sodium Sulfate. Therefore boiler blow down must be increased resulting in greater chemical and fuel costs. Sulfite is only an oxygen scavenger and does not form a protective film of black magnetic iron oxide (F<sub>3</sub>O<sub>4</sub>, magnetite). This magnetite film passivates and protects the metal surfaces.

Hydrazine is not as effective as sulfite is as an oxygen scavenger and it is very toxic.

Hydrazine has been classified as a suspect carcinogen by OSHA and NIOSH. It has been regulated by the FDA to exclude any use that might come in direct contact with food.

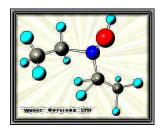






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Our new product OXYTREAT-15 solves all these problems and has the following benefits.

- It is suitable for boilers up to 125 bar.
- It is a very efficient oxygen scavenger.
- Forms a passivating protective film (F<sub>3</sub>O<sub>4</sub> Magnetite).
- It does not increase the total dissolved solids.
- It is sufficiently volatile so that it can protect against oxygen corrosion in the entire boiler system including the steam condensate return lines.
- Due to its unique property of being volatile it controls carbon dioxide corrosion in the condensate return line systems.
- The product is non toxic.

## **DOSAGE**

The recommended dosage is approximately 15 ppm of OXYTREAT-15 to 1 ppm oxygen.

## **CAUTION**

Avoid contact with skin and eyes. In case of contact rinse with plenty of water. Wear suitable protective clothing.

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