

OXYAMINE

OXYGEN SCAVENGER – BASED ON DEHA

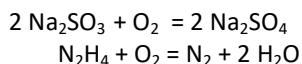
Product Code: Q00026
 Product Group: BOILER WATER TREATMENT
 Packaging: 25L

PRODUCT DESCRIPTION

OXYAMINE 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.

Limitations of Sulfite and Hydrazine

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



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 (F₃O₄, 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. Both Hydrazine and Sulfite are non – volatile. (Hydrazine has limited volatility). and they do not protect the steam – condensate return line system. It is obvious that the need for new oxygen scavengers is essential.

APPLICATION, DOSAGE & CONTROL

For an untreated system an initial dose of 100-200 ml per day then dosing should be controlled so that the deha residual in the condensate is between 0,1 – 04, ppm according to the table below:

Test Result Condesate PPM DEHA

0.00 – 0.1	0.1 – 0.4	+0.40
Increase dose by 25%	Maintain dose	Decrease dose by 25%

BENEFITS

- It is suitable for boilers up to 125 bar.
- It is a very efficient oxygen scavenger.
- Forms a passivating protective film (F₃O₄ – 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.



HEALTH SAFETY

Please refer to the Material Safety Data Sheet and Product Label for specific information.

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