

Oxyplex

Description

WATER TREATMENT

Product Code: 320002

DEHA OXYGEN SCAVENGER BOILER WATER TREATMENT

- Controls ferrous and non-ferrous corrosion in feedwater, boilers, steam and condensate lines
- Increases system life and reliability
- Organic and volatile product; easily distributed in the system
- Feedwater and boiler system passivation on all inner surfaces
- Fast acting & economical in use
- Safe and easy to use, low toxicity
- Treatment level determined with a simple test kit

APPLICATION AREAS PROBLEMS SOLVED

Feedwater	Ferrous and non-ferrous corrosion.
Boilers	Health and safety hazards, and
Steam lines	handling precautions of Hydrazine
Condensate lines	

DESCRIPTION

Oxyplex is a superior quality Diethylhydroxylamine (DEHA) based oxygen scavenger developed for boiler water treatment and acts as a direct replacement for Hydrazine.

Oxyplex has volatile and alkaline properties, thus completely deterring the accumulation of dissolved solids or ammonia to the boiler system. The protection from oxygen corrosion is outstanding and controls ferrous and non-ferrous corrosion in feedwater, boilers, steam and condensate lines. Furthermore, **Oxyplex** provides excellent feedwater and boiler system passivation on all inner surfaces.

It is crucial that boilers should be protected from corrosion and especially pitting corrosion. **Oxyplex** effectively removes the dissolved oxygen, by reacting with dissolved oxygen and form non-corrosive compounds.

The necessary dosage to maintain the concentration within the specified control range is determined with daily testing of DEHA in the feedwater using the **DEHAPak** test kit.

APPLICATION

Use **Oxyplex** according to the treatment programme that **New Age Chemicals** has suggested.

Oxyplex may be applied to any boiler up to 125 bar, without the health and safety hazards, and handling precautions that Hydrazine imposes.

Oxyplex can be used as a direct replacement for Hydrazine.

USE AND DOSING

The dosing point should be placed in the boiler feed line or in the boiler body, using an injector and a dosing pump, as for Hydrazine. The dosage must be continuous and the reserve of DEHA in the condensate must be kept within 0.10 and 0.30 ppm. Dosage is respectively increased or decreased by 25%, when outside these limits. For system start-up, use 100 – 300ml per day of **Oxyplex**, or higher, if the system has been poorly passivated.

Use **DEHAPak** test kit to adjust treatment level. Always test sample from the same sampling point of condensate, cooled and tested immediately. Improper control of the DEHA concentration will not provide adequate protection of the boiler system and may lead to accumulation of ammonia in the condensate with possible corrosion of copper alloy tubes.

Keep the feedwater temperature as close to 90°C, or higher if possible, to minimize dissolved oxygen concentration.

New Age Chemicals marine specialists are always available for any further technical assistance required.

PRODUCT PROPERTIES

Appearance: Pale yellow liquid with amine odour

pH (undiluted): 10.5 ± 1.0

Density: $1.02 \pm 0.02 \text{ g/cm}^3$

Flash Point: None

RELATED PRODUCTS

BoilerPak LP boiler water test kit

DEHAPak set for measuring the DEHA value in the condensate water

Autoplex oxygen scavenger boiler water treatment