

# CorTrol\* OS Series

## Organic Oxygen Scavengers

- Controls oxygen corrosion.
- Contributes to passivation.
- Contributes no inorganic solids to feedwater.
- Improves boiler reliability
- Residual test available

### Description and Use

CorTrol\* OS Series products are aqueous blends of patented, proprietary and standard organic oxygen scavengers, which do NOT contribute to inorganic boiler water solids.

These products are designed for the control of corrosion due to dissolved oxygen in make up and feedwater systems.

Removal or reduction of oxygen and improved feedwater conditioning contributes to iron passivation for greater operational reliability.

Specific CorTrol OS Series products are accepted for use in paper mills where paper or paperboard products may contact food (21 CFR 176.170 and 21 CFR 176.180) and for use where the FDA regulates the boiler feedwater treatment.

### Typical Applications

Even with good deaerating heater operation, sufficient dissolved oxygen can remain in feedwater to damage the boiler system. Low levels of dissolved oxygen are critical to high-pressure (high temperature) systems. Oxygen in water produces pitting which is particularly severe because of its localised nature.

Economisers and feedwater heaters are especially susceptible to oxygen attack.

While CorTrol OS Series products can effectively be used in low-pressure boiler systems, they were developed as oxygen scavengers for higher-pressure (>70 kg/cm<sup>2</sup>, 1000 psig) applications where boiler water solids are a major concern.

Because CorTrol OS Series products contribute no inorganic dissolved solids, they are preferable to other inorganic scavengers when feedwater is used for attemperation. When feedwater containing an inorganic oxygen scavenger is used for attemperation, harmful deposits on superheater tubes and/or turbines may result.

CorTrol OS Series products are also suitable for use in petrochemical plants because they do not affect sulphur sensitive catalysts. CorTrol OS Series products have a negligible impact on steam purity and cation conductivity in condensate.

### Treatment and Feeding Requirements

**Feed point** - CorTrol OS Series products should be fed continuously to either the drop leg between the deaerator scrubbing section and the storage section or directly into the deaerator storage section. CorTrol OS Series products can also be fed to the feedwater line.

**Dilution** - Use good quality condensate, demineralised water or deaerated feedwater to make a convenient feeding strength. CorTrol OS Series products may be diluted in any proportion. Mild agitation should be provided for initial mixing only.

### General Properties

The physical properties of CorTol OS Series products are shown on their individual Safety Data Sheets, a copy of which is available on request.



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## Packaging Information

CorTrol OS Series products are liquid blends and are available in a wide variety of customised containers and delivery methods. Contact your local GE representative for details.

## Safety Precautions

A Safety Data Sheet containing detailed information is available on request for each specific CorTrol OS Series product.



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