



CorTrol® OS7785

Oxygen Scavenger

- Controls oxygen corrosion
- Provides superior metal conditioning for feed-water and condensate systems
- Improves boiler reliability
- Contains no hydrazine or derivatives of hydrazine
- Contributes no inorganic solids to feedwater

Description And Use

CorTrol® OS7785 is an aqueous blend of an organic oxygen scavenging material and a neutralizing amine. It is a volatile scavenger and does not contribute to inorganic boiler water solids. In addition, it is safer to handle than hydrazine.

CorTrol OS7785 is designed for the control of corrosion caused by dissolved oxygen in makeup, condensate and feedwater systems. It is not suitable for use where the FDA or USDA regulates the boiler feedwater treatment or in drinking water systems.

Typical Applications

Even with good deaerating heater operation, sufficient dissolved oxygen can remain in the feedwater to damage the boiler system. Even 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 localized nature. Economizers and feedwater heaters are particularly susceptible to oxygen attack.

While it can effectively be used in low pressure boiler systems, CorTrol OS7785 was specially developed as an oxygen scavenger for higher pressure (>1000 psig) [70 kg/cm²] applications where boiler water solids are a major concern. CorTrol OS7785 contributes no inorganic dissolved solids to the system, which may result

in a reduction in boiler blowdown with corresponding energy savings.

Because it is such a strong reducing agent, CorTrol OS7785 has also demonstrated the ability to reduce certain forms of metallic oxides, thereby conditioning metal surfaces.

Because CorTrol OS7785 is an excellent oxygen scavenger and provides superior metal conditioning at typical condensate temperatures, the product is highly desirable for condensate system protection.

The use of CorTrol OS7785 is beneficial where feed-water 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 OS7785 is also beneficial in petrochemical plants as it does not affect sulfur-sensitive catalysts.

CorTrol OS7785 can also be used for boiler layup.

Treatment And Feeding Requirements

Feed Point - CorTrol OS7785 should be fed continuously to the deaerator storage section or to the feedwater line. For condensate protection it can be fed diluted to the steam header or to condensate lines.

Feedrate - Feed CorTrol OS7785 based on the boiler feedwater dissolved oxygen level. Feed continuously.

Dilution - Use good quality condensate, demineralized water or deaerated feedwater to make a convenient feeding strength. The material may be diluted in any proportion. Mild agitation should be provided for initial mixing only. Product solution should have minimum exposure to atmospheric oxygen. If this material is fed from a day tank, it is recommended that only a 24-hour supply be made at a time.

Equipment - Feed CorTrol OS7785 using a mild steel feed system. This product is suitable for use with PaceSetter® automated chemical feed and control equipment.

Safety Precautions

A Material Safety Data Sheet containing detailed information about this product is available upon request.

Packaging Information

CorTrol OS7785 is a liquid blend, available in a 200 litre non-returnable steel drum. Contact your GE Betz representative for details.