

CorTrol* OS5310

oxygen scavenger

- Controls oxygen corrosion
- Promotes passivation
- Improves boiler reliability
- Organic oxygen scavenger – contributes no inorganic solids to feedwater

description and use

CorTrol OS5310 is designed for the control of corrosion caused by dissolved oxygen in makeup and feedwater systems. The resulting absence of oxygen and feedwater conditioning contributes to iron passivation. CorTrol OS5310 is an aqueous organic oxygen scavenger which does not contribute to inorganic solids to boiler feedwater.

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 localised nature. Economisers and feedwater heaters are especially susceptible to oxygen attack. While CorTrol OS5310 can effectively be used in low pressure boiler systems, it was developed as an oxygen scavenger for higher pressure applications where boiler water solids are a major concern. When feedwater containing an inorganic oxygen scavenger is used for attemperation, harmful deposits on superheater tubes and/or turbines may result. Because CorTrol OS5310 contributes no inorganic dissolved solid, it is preferable to other inorganic scavenger when feedwater is used for attemperation.

CorTrol OS5310 is also suitable in petrochemical plants because it will not affect sulphur-sensitive catalysts. The use of CorTrol OS5310 results in a negligible impact on steam purity and cation conductivity in condensate.

treatment and feeding requirements

Feedpoint - Feed to the drop leg between the deaerator scrubbing section and the storage section or the deaerator storage section; can be fed to the feedwater line.

Feedrate – Proper treatment levels depend on many factors specific to a given installation. The product should be used in accordance with the control procedures that SUEZ establishes for a specific application.

Dilution - Use good quality condensate, demineralised water or deaerated feedwater to make a convenient feeding strength. The material may be diluted in a covered day tank in any proportion and may be mixed with neutralising amines in the day tank. Mild agitation should be provided for initial mixing only. A covered day tank should be used to maintain product efficacy.

equipment

Chemical feed tanks and storage tanks should be polyolefin. Mild steel pumps, valves, and chemical feedlines are acceptable. This product is suitable for use with PaceSetter* automated chemical feed control equipment.

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general properties

Physical properties of CorTrol OS5310 are shown on the Material Safety Data Sheet, a copy of which is available on request.

packaging information

Cortol OS5310 is a liquid blend, available in a wide variety of customised containers and delivery methods. Contact your SUEZ representative for details.

safety precautions

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