

CorTrol* OS9990

oxygen scavenger

- Suitable for use in FDA-regulated plants
- Provides superior metal passivation
- Improves boiler reliability
- Contains no hydrazine or derivatives of hydrazine
- Contributes no inorganic solids to feedwater

description and use

CorTrol OS9990 is an aqueous blend of an organic oxygen scavenging material and a neutralizing amine. It is an organic scavenger and does not contribute to inorganic boiler water solids. In addition, it is safer to handle than hydrazine.

CorTrol OS9990 is designed for the control of corrosion caused by dissolved oxygen in makeup, condensate, and feedwater systems. It is appropriate for use where the FDA regulates the boiler feedwater treatment. It is not suitable for use 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 concentrations of dissolved oxygen can be damaging to high pressure (high temperature) systems. Oxygen in water produces pitting which is 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 OS9990 was specially developed as an oxygen scavenger for higher pressure applications where boiler water solids are a major concern. CorTrol OS9990 contributes no inorganic dissolved solids to the system. This could result in a reduction in boiler blowdown with corresponding energy savings.

The oxygen scavenging efficiency of CorTrol OS9990 is better than hydrazine. In addition to scavenging oxygen, it will assist in the conditioning of metal surfaces.

treatment and feeding requirements

Feed Point - Preferably to the deaerator storage section; can be fed to the feedwater line.

Feedrate - Control based on 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 can be diluted in any proportion. Mild agitation should be provided for initial mixing only. Product solution should have minimum exposure to atmospheric oxygen. A covered day tank should be used to maintain product efficacy.

Equipment - Chemical feedlines should be 316 stainless steel fiberglass, polypropylene, PVC, or epoxy-lined. Storage tanks should be polyolefin. Feed nozzles and liquid exposed pump parts should be 316 stainless steel.

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general properties

Physical properties of Cortrol OS9990 are shown on the Material Safety Data Sheet, a copy of which is available on request.

packaging information

Cortrol OS9990 is a liquid blend, available in a wide variety of customized 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.