

ZI-CHEM 1291 Steam Boiler Corrosion Inhibitor

HIGHLIGHTS

ZI-CHEM 1291 corrosion inhibitor is an essential component of the ZI-TECHASIA maintenance protection program of the boiler and after boiler systems.

This product a blend of sulphite of high purity for critical food and pharmaceutical applications. It is designed to prevent corrosion in steam generating systems by removing dissolved oxygen from feedwater and boiler water.

ZI-CHEM 1291 reacts almost instantaneously even at low temperatures with any oxygen present in feedwater, preventing it from accelerating corrosion in the boiler, steam and condensate systems.

TYPICAL PROPERTIES

- Appearance: Off-white free flowing powder
- Density 1.44
- pH (1.0% soln) 9.0 – 10.0
- Solubility 20% at 20 °C

PRIMARY APPLICATIONS

The primary feed point for steam boilers is continuous to the deaerator storage vessel via stainless steel injection quill. Alternate location is the feedwater line.

FEEDING & CONTROL

ZI-CHEM 1291 should be dissolved in a site mixing tank, and the solution injected to boiler or pre-boiler added using a chemical metering pump with liquid end constructed of suitable materials. These include PVC, polypropylene, Viton, Teflon and stainless steel.

The dosage will depend on the operating conditions and the chemistry of the water being treated. The normal dosage of treatment is regulated to maintain an excess of 30 – 50 mg/L of sulphite as SO₃ in the boiler water. Your ZI-TECHASIA technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis.

APPROVAL

FDA acceptable in accordance with 21 CFR Section 173.310- Boiler water additive.

THE BENEFITS

- Avoid unscheduled shutdown due to corrosion problem in the boiler, steam and condensate systems.
- Extended equipment life.
- Suitable for food and pharmaceuticals industries

COMMON APPLICATIONS

- Automotive industries
- Packaging facilities
- Pharmaceutical
- Food Industries
- Pulp & Paper processing
- Timber processing

PACKAGING

- 25kg open top pails with sealed lid
- 25kg nylon bags

HANDLING & SAFETY

ZI-TECHASIA maintains a database of material safety data sheets (MSDS) on all our products. These contain health & safety information to assist in the safe and appropriate chemical handling, ensuring the protection of personnel.

