

ZI-CHEM 1430 Steam Boiler Corrosion Inhibitor

HIGHLIGHTS

ZI-CHEM 1430 corrosion inhibitor is a specialist corrosion inhibitor for the after boiler section of steam generating systems. It is specifically designed to minimize corrosion caused by carbon dioxide and oxygen. ZI-CHEM 1430 functions by forming a non-wettable, monomolecular film on metal surfaces similar to traditional film-forming compounds.

Because of its unique composition, ZI-CHEM 1430 is suitable for use in a wide variety of applications where amine or nitrogen-containing products may not be desirable including food processing applications where steam may have direct contact on food products or food producing surfaces.

TYPICAL PROPERTIES

- Appearance: White viscous liquid
- Specific gravity: 0.9 – 1.05
- pH (neat) 5.0 – 7.0
- Boiling point 162 °C
- Flash point (TCC) 54 °C

PRIMARY APPLICATIONS

As a general rule, a starting dosage of 10 to 20mg/L as product is applied based on the steam flow. The dosage of ZI-CHEM 1430 corrosion inhibitor can be adjusted to minimize the general corrosion rate and pitting in the system. Corrosion coupons can be mounted in the condensate return system to measure the corrosion rates and determine the effect of any adjustment to the dosing rate.

FEEDING & CONTROL

ZI-CHEM 1430 corrosion inhibitor should be fed as a 50% or less concentration directly to the steam header through stainless piping and injection quill. Depending on the complexity of the steam/condensate system, satellite feed points may be required.

APPROVAL

ZI-CHEM 1430 corrosion inhibitor is acceptable for use as a boiler water additive. All components are listed under 21 CFR 173.310 (Boiler Water Additives), are cleared for use as direct food additives or are affirmed as GRAS.

THE BENEFITS

- Avoid unscheduled shutdown due to corrosion problem in the steam and condensate systems.
- Extended equipment life.
- Suitable for food industries
- Easy handling due to its liquid form

COMMON APPLICATIONS

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

PACKAGING

- 25kg pails
- 200kg drums
- 1,000kg IBC containers

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.

