

ZI-CHEM 1443 Steam Boiler Corrosion Inhibitor

HIGHLIGHTS

ZI-CHEM 1443 corrosion inhibitor is an essential component of the ZI-TECHASIA maintenance protection program of the boiler and after boiler systems.

ZI-CHEM 1443 corrosion inhibitor is used to control corrosion in the after boiler section of a steam generating system by neutralizing the acidity of condensate. The product is a highly concentrated blend of volatile amines which can be blended and proportioned with other similar treatments to provide protection in both high and low pressure sections of a steam/condensate system.

TYPICAL PROPERTIES

- Appearance: Clear white to pale yellow liquid
- Specific gravity: 0.95 – 1.05
- pH (neat) 11.5 – 12.5
- Freeze point -40 °C
- Flash point (TCC) 43 °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 or the boiler steam header.

FEEDING & CONTROL

ZI-CHEM 1443 should be 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 is regulated to maintain the pH of condensate in the range of 8.5 to 9.0. Corrosion coupons and iron tests on returning condensate can be used as a backup control mechanism.

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 Where contact with food products may occur provided the concentration of product does not exceed 50 mg/L in the steam.

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.

