

ZI-CHEM 1410

Steam Boiler Corrosion & Scale Control

HIGHLIGHTS

ZI-CHEM 1410 corrosion inhibitor is an essential component of the ZI-TECHASIA maintenance protection program for steam generating systems.

ZI-CHEM 1410 corrosion inhibitor is used to control corrosion in the after boiler section of a steam generating system by neutralizing the acidity of condensate or distillate. The product is based on an ammonium hydroxide solution. This product performs in both low and high pressure systems. It is also used extensively in ultra-high purity water systems as part of all volatile treatment programs (AVT).

TYPICAL PROPERTIES

- Appearance: Clear colourless liquid
- Specific gravity: 0.9 - 1.0
- pH (neat) 12.5 – 13.5
- Freeze point 59.4°C

PRIMARY APPLICATIONS

This product should be continually metered as a solution either to the preboiler section, directly to the boiler, or to the steam header. ZI-CHEM 1410 can also be mixed and injected with the other boiler chemicals.

FEEDING & CONTROL

ZI-CHEM 1410 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 rate should be regulated to maintain the pH of the condensate in the range of 8.5 to 9.5. Corrosion coupons and iron (dissolved and suspended) in the condensate return system can be used to determine the effectiveness of the corrosion control program.

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 184.1139 – Ammonium Hydroxide, Direct Food Substances Affirmed as Generally Recognized as Safe (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

- 23kg pails
- 185kg drums
- 900kg 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.

