Product Technical Data

ZI-CHEM

ZI-CHEM 14C0
Steam Boiler Corrosion Inhibitor

HIGHLIGHTS

ZI-CHEM 14C0 corrosion inhibitor is an essential component of the ZI-TECHASIA maintenance protection program of the boiler and after boiler systems.

ZI-CHEM 14C0 corrosion inhibitor is a blend of amines with high and low distributiion ratio. It has combine effect of controlling corrosion in the after boiler section of a steam generating system by neutralizing the acidity of condensate. It is also can be used to raise pH in high purity boiler water.

TYPICAL PROPERTIES

- Appearance: Clear colorless liquid
- Specific gravity: 0.9 – 1.05
- pH (neat) 11.5 – 13.5
- Freeze point -40°C
- Flash point (TCC) 43.3°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 14C0 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.

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

- 25L pails
- 220L drums
- 1,000L 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.

ISO 9001:2008 Certificate No.SG12/04040 ISO 14001:2004 Certificate No.SG12/04041