

ZI-CHEM 31A0

Closed Cooling Water Corrosion & Scale Control

HIGHLIGHTS

ZI-CHEM 31A0 is an essential component of the ZI-TECHASIA plant preventative maintenance management program in water systems.

ZI-CHEM 31A0 multi-component product designed to control corrosion of mixed metals and inhibit scale deposition in heat exchangers of closed cooling and heating systems. It is also compatible with circuits containing glycol.

This formulation is also suited for closed cooling circuits used for medium and high speed diesel engines.

ZI-CHEM 31A0 is comprised of nitrite, borate and organic components, buffered to maintain a pH level that will avoid acid based corrosion that can occur with breakdown of glycol or acidic in leakage. This product has very low toxicity, which is of importance for safe handling and discharge of water.

TYPICAL PROPERTIES

- Appearance: Clear to red violet liquid
- Specific gravity: 1.2 – 1.3
- pH (neat) 11.5 – 12.5
- Freeze point: -25 °C
- Boiling point: 100 °C

PRIMARY APPLICATIONS

This product is added to achieve and maintain nitrite levels to the target range within the system being treated. A large single dose will be required when the system is first filled. Further doses will only be required if there are water losses from the circuit and the water is required to be topped up.

FEEDING & CONTROL

ZI-CHEM 31A0 can be added to the makeup tank, bypass feeder, or chemical injection pump. Recommended chemical pump materials include PVC, polypropylene, Viton, Teflon and stainless steel.

The dosage will depend on the operating conditions and the chemistry of the water being treated. Your ZI-TECHASIA technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis.

THE BENEFITS

- Improved heat transfer capacity
- Extended equipment life
- Reduced maintenance cost
- Avoid unscheduled downtime

COMMON APPLICATIONS

- Automotive industries
- Packaging facilities
- Power generating facility
- Tire & Rubber manufacturing
- Commercial & Institutional Building

PACKAGING

- 25kg pails
- 200kg drums
- 1,000kg IBC's or in bulk

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.

