

ZI-CHEM 3141

Closed Cooling Water Corrosion Control

HIGHLIGHTS

ZI-CHEM 3141 is an essential component of the ZI-TECHASIA plant preventative maintenance management program in water systems.

ZI-CHEM 3141 concentrated powder corrosion inhibitor formulation containing sodium metasilicate used to provide broad spectrum corrosion protection of metals in closed recirculating cooling water systems.

This formulation functions by placing a passivating film on the metal surface. It is compatible with circuits containing ethylene glycol. In many applications, it is designed as a component of a multi-component program designed to provide comprehensive control of corrosion.

TYPICAL PROPERTIES

- Appearance: White powder
- Specific gravity: 2.5 – 2.8
- pH (10 g/l) 12.0 – 13.0
- Solubility in water: Soluble
- Melting point: 1090 °C

PRIMARY APPLICATIONS

This product is added only when the nitrite level falls below prescribed level in sample analyses. This will normally only be required if there are water losses from the circuit and the water is required to be topped up.

FEEDING & CONTROL

ZI-CHEM 3141 should be dissolved in site mixing tank and added periodically using a chemical injection pump or bypass feeder. 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.

APPROVAL

FDA acceptable in accordance with 21 CFR Section 184.1769a GRAS

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
- Food Industries

PACKAGING

- 25kg open top buckets with lid
- 25kg nylon bags

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.

