

ZI-CHEM 22F0

Cooling Water Corrosion Inhibitor

HIGHLIGHTS

ZI-CHEM 22F0 is an organic corrosion inhibitor to be used in open and semi-open systems, which are fed with soft or decarbonized feed water. The corrosion inhibiting effect is based on the creation of a hydrophobic-hydrophilic monomolecular protective film on metal surfaces. This forms a strong barrier to prevent the contact of oxygen with metal surfaces.

The film-forming amines contained in ZI-CHEM 22F0 can also modify the crystalline structure of calcium carbonate into an amorphous form, which does not form a hard scale. Both mechanisms create a perfect protection film against corrosion and prevent deposits.

TYPICAL PROPERTIES

- Appearance: Milky white to yellowish liquid
- Specific gravity: 0.9 – 1.1
- pH (neat) 8.5 – 9.5
- COD: 345 mg O₂/g
- Solid point: 0°C

PRIMARY APPLICATIONS

For the initial dosage to the system, ZI-CHEM 22F0 should be added directly to the circuit. ZI-CHEM 22F0 must be applied as a concentrate. A dilution of the product is not recommended.

For an efficient treatment we recommend the addition of ZI-CHEM 22F0 proportionally to the make-up water rate, using suitable feeding equipment.

FEEDING & CONTROL

ZI-CHEM 22F0 should be added using a chemical metering pump with liquid end constructed of alkali resistant materials. These include PVC, polypropylene, Teflon and stainless steel. The product is not compatible with Viton.

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

- Corrosion protection where other inhibitors do not function
- Extended equipment life
- Reduces maintenance cost
- Avoid unscheduled downtime

COMMON APPLICATIONS

- Automotive industries
- Packaging facilities
- Power generating facility
- Geothermal cooling facilities
- Tire & Rubber manufacturing
- Cement manufacturing
- Petro chemical plant

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.

