

ZI-CHEM 25F0

Cooling Water Microbiological Control

HIGHLIGHTS

ZI-CHEM 25F0 is a powerful chlorine stabilizer, used in combination with sodium hypochlorite to produce in situ stabilized active chlorine solution. ZI-CHEM 25F0 is designed to maximize the performance of chlorine, which is by far the most popular cooling water microbial control agent because of its cost advantages.

The combination of ZI-CHEM 25F0 and sodium hypochlorite effectively controls both microorganisms and biofilm in influent water, process water, and once-through and open recirculating cooling systems. The in situ stabilized active chlorine solution is safe and easy to use and does not cause any of the adverse side effects associated with using strong oxidizing biocides.

TYPICAL PROPERTIES

- Appearance: Clear faint yellow to amber liquid
- Specific gravity: 1.15 – 1.25
- pH (neat) 3.0 – 5.0
- Freeze point: Not available
- Flash point: Not available

PRIMARY APPLICATIONS

ZI-CHEM 2530 should be used in conjunction with sodium hypochlorite (12.5%) to produce monochloramine.

For a noticeably fouled system, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

FEEDING & CONTROL

For intermittent treatment, mix 1.0 liter of ZI-CHEM 25F0 to 3.7 liters of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours.

For continuous treatment, mix the same ratio as above. Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis.

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
- Prevent water borne life taking diseases such as legionella disease
- Avoid unscheduled downtime

COMMON APPLICATIONS

- Automotive industries
- Packaging facilities
- Power generating facility
- Pulp & Paper processing
- Pharmaceutical
- Petrochemical 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.

