JMN SPECIALTIES, INC.

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PRODUCT BULLETIN

CTT-321

Cooling Tower Corrosion and Scale Inhibitor

General Description

CTT 321 is a complete corrosion and scale inhibitor concentrate for use in open recirculating cooling water systems. The product is a combination of organic phosphorous compounds, inorganic phosphate, polymers, aromatic azoles, and other proprietary compounds. It protects both ferrous and nonferrous metals against corrosion by the creation of a passivating barrier. It also inhibits deposition of polyvalent metal ions and fouling due to suspended solids. **CTT 321** provides complete system protection against scale and corrosion in a single, dilutable package.

Cooling Water Treatment

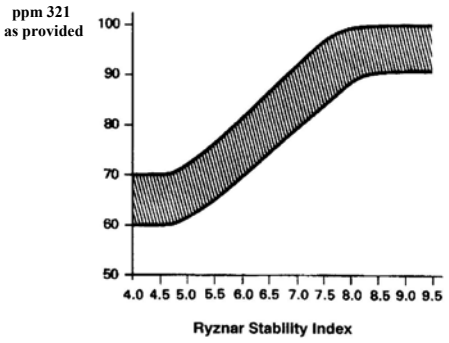
To inhibit corrosion and control scale formation in open recirculating cooling water systems, **CTT 321** should be maintained in the system at 60 - 100 parts per million (ppm). In some cases, 120 to 200 parts per million may be needed depending on water conditions. The amount of **CTT 321** needed for each individual system will depend on the degree of corrosiveness or scaling tendencies in the recirculating water. Under normal circumstances, the specific dosage of **CTT 321** can be determined based on the Ryznar Stability Index. In some systems, the Ryznar Stability Index of the circulating water may be less than 4.0 or greater than 9.5. Under these circumstances, it is advisable to adjust the Ryznar Index by varying the cycles of concentration or by adding acid or alkali, as necessary. **CTT 321** contains components that effectively inhibit the corrosion of copper and copper alloys and prevent the deposition of suspended solids. For best results, fouled systems should be mechanically or chemically cleaned prior to the start-up of any corrosion inhibitor program. **CTT 321** should be fed continuously to the system at a point of good agitation to ensure its proper distribution throughout the system.

Application

CTT 321, as supplied, provides complete protection against scale, corrosion, and fouling from suspended solids. It may be fed neat from the drum or diluted to any convenient feeding strength. As with all formulations, dilutions should be made with softened or deionized water. Depending on dilution water characteristics, addition of low levels of potassium hydroxide (KOH) may be required to maintain dilution stability. Your JMN Specialties, Inc. representative will advise you on appropriate dilution procedures.

Properties

Color	Clear Liquid
Specific Gravity (20B C)	1.35 g/ml
pH (200 ppm in water)	> 12.0
Flash Point (PM CC)	> 212° F



Availability

CTT 321 is available in UN approved 5 gallon pails, 55 gallon drums and bulk quantities.

Handling

Keep out of reach of children! Causes severe burns. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove all contaminated clothing upon contact. Wear suitable gloves and face/eye protection. Observe warning label on containers. Normal precautions for industrial chemicals apply.

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