

KOOL TOWER 123

MULTI-METAL CORROSION & SCALE CONTROL



PRODUCT APPLICATION GUIDE

- **KOOL TOWER 123** a 99% active Liquid Ultra Concentrate!
- **KOOL TOWER 123** contains a powerful blend of environmentally friendly Anti-Scalants/Polymeric Dispersants/ Crystal Modification compounds for control of Calcium Carbonate as well as other scale forming or fouling ions.
- **KOOL TOWER 123** incorporates redundant organic ferrous and non-ferrous corrosion control agents for corrosion control of Steel as well as Copper/Brass/Galvanizing/Zinc or alloys of these metals.
- **KOOL TOWER 123** represents the most cost efficient cooling water treatment available in the industry today!
- **KOOL TOWER 123** is a severe service scale/corrosion inhibitor blend that can take on the toughest challenges.
- **KOOL TOWER 123** resists degradation from Bromine/Chlorine compounds and/or other oxidizing sources.
- **KOOL TOWER 123** contains a powerful biomass dispersant complimenting **KOOL TOWER 123's** antiscalant/dispersants & externally applied microbiocides. The cleaner the surfaces the faster and more effectively corrosion inhibition takes place! Clean surfaces translate to a greater reduction in biofilms; lesser demands placed on microbiocides and generally a lessening of microbiocide dosage levels as well as improved corrosion rates. All of which contribute to the most cost and application effective cooling water treatment program!
- **KOOL TOWER 123** formulation components generally meet the highly stringent European EEOCD standard for biodegradability. KOOL TOWER 123 has a 60%+- 28 day biodegradability profile!
- **KOOL TOWER 123** is unique in that it has four distinct potential control tests: Active Organo Phosphonate-Active Polymer-Molybdate-Fluorescent tracing. Real Time on-line monitoring for **KOOL TOWER 123** can be accomplished utilizing any of the commercially available on line Molybdate or fluorescent tracing ion analyzers.

Application & Control

- General KOOL TOWER 123 maintenance rate of 30-60 ppm present in re-circulating water. An example: presuming make-up water values of 146 TH & 110 M Alkalinity, operating at 5 Cycles of Concentration (730 TH & 550 M Alk), KOOL TOWER 123 applied at the 6-12 ppm range based on make-up water and then accumulated via COC to the 30-60 ppm maintenance level.
- Product Control accomplished using one of the following: RediTab Organo Phosphonate Test Kit at 5-10 ppm active O.P. and/or 10-20 ppm active Total Polymer using an MP-9737 or similar test methods and/or 0.5 -1.0 ppm Molybdenum and/or fluorescent tracing monitoring (see SST for applicable values).
- Oxidizing microbiocides can be applied when the free halogen content does not exceed 10 ppm in the re-circulating water. Excessive halogen levels may result in partial degradation of the formulation components. TowerShield-123 is compatible with all non-oxidizing microbiocides except for cationic charged quaternary ammonium compounds.

PHYSICAL PROPERTIES:

Color/Form: Amber Liquid
 Odor: Characteristic
 Density: 1.14+/-
 Freeze Point: <32F+/-
 Freeze/Thaw: Full Recovery

GHS CODE: Irritant



DOT Class:

NON REGULATED

