

BETAGARD 1200

Corrosion Inhibitor

Description **BETAGARD 1200** is a corrosion inhibitor formulated for use in evaporative cooling tower systems where there is a need for a complete treatment chemical, which incorporates corrosion inhibition and scale and deposit control without any heavy metal components, in a single product. **BETAGARD 1200** is a highly effective combined scale and corrosion inhibitor developed as a multifunctional zinc/phosphate/Phosphonate based blend of scale and corrosion inhibitors for open re-circulating water systems. **BETAGARD 1200** is designed for systems with corrosive water (low to medium hardness and/or alkalinity). **BETAGARD 1200** will provide protection over a wide range of operating parameters and applicable for 50 - 800 calcium and 100 - 350 M-alkalinity.

BETAGARD 1200 combines all the requirements of a balanced cooling water inhibitor:

- Zinc (at a low level) for protection of the Cathodic areas.
- Complex Phosphonates for cathodic protection with Zinc.
- Ortho and Polyphosphates to assist Zinc solubility

Properties

Appearance	Colorless to yellowish liquid
pH	< 2.0
Sp. Gravity at 25 DEG C	1.10 – 1.35
Solubility	Completely soluble in water

Dosage and Feeding

The dosage rates of **BETAGARD 1200** will vary according to the nature of water within the circuit to be treated which will be influenced by make-up water quality and the operating concentration factor of the system.

BETAGARD 1200 is very effective indeed, it has been found to be effective even at 10-50 ppm, but for heavy scale or corrosive water a higher dosage will be needed since there is some demand on the chemical due to stoichiometry in its action. For such systems, we suggest a range of 50-200 ppm to be maintained in the system at all time for excellent scale or corrosion control. The dosage rate will depend on particular situations, but general guidelines are as follows

Handling and storage

BETAGARD 1200 is acidic and may cause eye or skin irritation. Wear goggles when handling. Avoid contact with eyes or skin. If eyes are contacted, flush with plenty of water for about 15 minutes and get medical attention immediately.

Packaging

In plastic container with net weight 25 or 200 kg.