



## VCI ADDITIVES FOR FORMULATORS

# Closed Loop Toad™ Patent Pending

### PRODUCT DESCRIPTION

Cortec's Cooling Loop Toad™ is a unique combination of Vapor Corrosion Inhibiting (VCI) powders in polyvinyl-alcohol (PVA) water-soluble bags. It was developed to provide corrosion protection in recirculating and operating cooling systems. This product prevents corrosion of metals in the liquid phase, vapor phase and the liquid-vapor interface. The bag dissolves and the VCIs adsorb on all metal surfaces - reaching even recessed areas and interior cavities. The VCIs form a strong protective molecular layer on the metal. Cooling Loop Toad™ also contains a blend of organic-based scale inhibitors to prevent scale.

### FEATURES

- Effective for a broad range of applications to stop aggressive corrosion
- Environmentally friendly
- Water-soluble powder and bag
- Easy to apply
- Does not contain free amines or nitrite
- Protects inaccessible and recessed surfaces
- Provides multimetal protection
- Enables safe handling
- PVA bags are fully biodegradable, non-toxic and non-irritating
- Reduces chemical consumption and cost
- Increased worker productivity
- Increased worker safety

### TYPICAL APPLICATIONS

- Recirculating cooling systems
- Fire extinguishing systems
- Hydrostatic testing of pipelines, casings, tanks and valves

### METHOD OF APPLICATION

Remove and discard outer barrier bag. Throw the water-soluble bags directly into cooling water. Four bags treat up to 1,000 gallons (3.8 m<sup>3</sup>) of water. After application, all internal surfaces should be covered or closed.

### DIMENSION

Bag 10" x 14" (25 cm x 35 cm)

### PHYSICAL PROPERTIES OF POWDER

Appearance White to off-white powder  
pH 10-12 (1% aqueous)

### PACKAGING AND STORAGE

Cooling Loop Toad is available in four (4) 2.2 lb (1.0 kg) bags per box. Store in sealed container in a dry and cool warehouse. Do not store in conditions above 150°F (66°C).

**FOR INDUSTRIAL USE ONLY**  
**KEEP OUT OF REACH OF CHILDREN**  
**KEEP CONTAINER TIGHTLY CLOSED**  
**NOT FOR INTERNAL CONSUMPTION**  
**CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

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