Cooling Tower Frog®, Patented

**DESCRIPTION**

Cortec’s Cooling Tower Frog® is a Vapor phase Corrosion Inhibitor (VpCI®) powder packaged in polyvinyl-alcohol (PVA) water-soluble bags. It is specially developed for dry layup of cooling tower systems for seasonal, short-term, or long-term periods. Cooling Tower Frog® is effective for up to 12 months. This product offers an extremely efficient method of protecting multi-metals in enclosed spaces. When the bag is cut open, the VpCI® molecules vaporize and adsorb on all metal surfaces, reaching even recessed areas and interior cavities. These corrosion inhibitors form a strong, self-replenishing, protective molecular layer on the metal. Designed for ease of application, Cooling Tower Frog® enables an easy startup because it does not require removal.

**PACKAGING & STORAGE**

Cooling Tower Frog® is available in two 4-lb (1.8 kg) bags per carton.

Bag - 10” x 14” (25 cm x 35 cm)  
To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years

---

**VpCI® ADDITIVES FOR WATER TREATMENT**

**FEATURES**

- Continuous multi-metal corrosion protection during layup
- Multi-phase protection (vapor phase, liquid phase, and at the air-water interface)
- Fully biodegradable PVA bags

**BENEFITS**

- Protects inaccessible and recessed surfaces
- Requires little or no surface preparation
- No special preparation necessary prior to startup
- Eliminates environmental hazards and disposal problems
- Reduces chemical consumption and cost
- Enables safe and easy hands-off application

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to Off-White Powder</td>
</tr>
<tr>
<td>pH</td>
<td>6-7 (1% in water)</td>
</tr>
</tbody>
</table>

**APPLICATION**

Dry Layup: 
Remove and discard outer barrier bags. Place bags flat into the designated equipment and slit open water-soluble bags to begin corrosion protection. Two bags treat up to 1,000 gallons or 3,800 liters (133.7 ft³ or 3.8 m³) of enclosed space.

*Note: After application, the internal spaces should be sealed from the outside atmosphere.*
LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec® Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec® Corporation’s obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec® Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec® Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec® Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC® CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.