Cooling Water Zinc Phosphonate Corrosion Inhibitor

Description

Cooling Water Zinc Phosphonate based Scale and Corrosion Inhibitor is an excellent combination of products to give optimum corrosion protection and scale inhibition in open re-circulating cooling water system.

Apart from scaling and rust inhibition, Zinc Phosphonate based corrosion and scale inhibitor comes in a multifunctional combination imparting the following key properties:

- Dispersant for breaking down mud, silt and clay deposits
- Chelation of iron oxide
- Yellow metal protection
- Sequestration of calcium and magnesium salts
- Dispersion of silica and silicate deposits

Zinc Phosphonate based scale and corrosion inhibitor are effective in severe conditions of hard and saline make-up water with up to 800ppm calcium hardness as CaCO3, up to 50ppm iron as Fe, up to 200ppm silica as SiO2, up to 400ppm m-alkalinity as CaCO3 and 6-10 pH.

Corrosion & Scale Inhibitors for Cooling water systems ensures optimum heat transfer and extended life of the system.

Scale & Corrosion Inhibitors are profitable for users for its round the year savings of power & labour, increase in production and extended system life. Use of water antiscalant and corrosion inhibitors is a prime necessity to meet up with the huge production targets.

Zinc Phosphonate based product has more technical as well as economical
advantages as compared to the old and obsolete technology of zinc phosphate based cooling water corrosion inhibitor.

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<table>
<thead>
<tr>
<th>Specification</th>
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<tbody>
<tr>
<td>Chemical Type</td>
<td>Zinc/Phosphonate/Azole and Organic chelants &amp; sequestrants</td>
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<tr>
<td>Form</td>
<td>Liquid</td>
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<tr>
<td>Specific Gravity</td>
<td>1.10 + 0.05</td>
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<td>pH</td>
<td>2</td>
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<tr>
<td>Solubility</td>
<td>Completely Soluble in Water</td>
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Dosage: Zinc Phosphonate based Scale and Corrosion Inhibitors are normally fed continuously to the re-circulating water. It can be injected by chemical dosing pump or fed directly to the CT sump (basin). The amount of chemical required to inhibit scale and corrosion formation depends on the quality of feed water and plant operating conditions. The specific dosage rates will be specified by the CSL technical representative.

Major Benefits:
- Prevention of Scaling and Corrosion
- No downtime required for descaling and cleaning of clogged or scaled and rusted pipelines and heat exchangers
- Power saving up to 70%
- Effective heat transfer
- Increase in productivity
- Extended system life