DeCORE IMT-100LF

DeCORE IMT-100LF is a low foaming, anionic, mixed amine carboxylate. It is recommended for use as a low foaming, corrosion inhibitor for ferrous and non-ferrous metals in aqueous systems at pH >7.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance @ 25°C</td>
<td>Clear amber viscous liquid</td>
</tr>
<tr>
<td>Color* (Gardner)</td>
<td>12 max.</td>
</tr>
<tr>
<td>pH (1% in DW)</td>
<td>7.0 +/- 0.5</td>
</tr>
</tbody>
</table>

*darkens upon aging

SOLUBILITY (10% by weight): DeCORE IMT-100LF is soluble in water, alcohols and glycols. It is dispersible in chlorinated and aromatic solvents and mineral oil. It is insoluble in aliphatic solvents.

TYPICAL PROPERTIES

- % Activity: 99% min.
- Density @ 25°C: ~1.0 g/ml
- Corrosion inhibitor in aqueous systems at pH ≥ 7
- Very low foam
- Adds lubricity
- Wetting and spreading properties
- Not recommended for use in acid system
- Effective at low use levels (0.1 – 0.5%) in final use dilutions
- Biodegradable
- Non-phenolic
- Hard water stable

APPLICATIONS

- Synthetic coolants and cutting fluids for ferrous and non-ferrous metals
- Cooling tower additive
- Water based lubricants
- Alkaline metal cleaners
- Concrete form corrosion inhibitor
- Mechanical dishwashing detergents
- Corrosion inhibitor for aqueous paints & coatings
- Corrosion inhibitor for automobile radiators
- Corrosion inhibitor for down hole drilling
- Rust preventative in aerosol cans

Continued
Panel Submersion Testing using DeCORE IMT-100LF

Panels were half way submerged in solutions containing DeCORE IMT-100LF in standard hard water composed of 100 ppm as CaCO3 & 71 ppm as chloride. Panels were stored at room temperature (RT) or heat aged at 50°C as indicated in the photos below.

Cold Rolled Steel, 0.063” thickness

<table>
<thead>
<tr>
<th></th>
<th>30 days elapsed @ RT &amp; 50°C</th>
<th>90 days elapsed @ RT</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Inhibitor</td>
<td>0.5% @ RT</td>
<td>0.5% @ 50°C</td>
</tr>
<tr>
<td>0.5% @ RT</td>
<td></td>
<td>0.5%</td>
</tr>
<tr>
<td>0.5% @ 50°C</td>
<td></td>
<td>1.0%</td>
</tr>
</tbody>
</table>

Testing in Higher Chlorides

Panels were half submerged in a solution containing 0.5% by weight of DeCORE IMT-100LF in hard water composed of 200 ppm as CaCO3 & 142 ppm as chloride.

Cold Rolled Steel, 0.063” thickness, 30 days elapsed