DeCORE APCI-95 MOD

DeCORE APCI-95 MOD is a very low foaming, water soluble anionic corrosion inhibitor used for the prevention of rust on a variety of metal surfaces. It is suggested for use as an all purpose corrosion inhibitor for copper, brass, magnesium, bronze, galvanized steel, cast iron and other ferrous and non-ferrous metals.

SPECIFICATIONS

Appearance @ 25°C: Clear amber viscous liquid
Color* (Gardner): 12 max.
pH (1% in DW): 7.0 - 8.0

*darkens upon aging

SOLUBILITY (10% by weight): DeCORE APCI-95 MOD is soluble in water, alcohols and glycols. It is insoluble in solvents and dispersible in oils.

TYPICAL PROPERTIES

% Activity 95% min.
Density @ 25°C ~1.02 g/ml

- Corrosion inhibitor for metal in aqueous systems at pH ≥ 7
- Not stable in acid systems
- Virtually non-foaming
- Hard water stable
- Effective at low use levels (0.1 – 0.5%)
- Biodegradable
- Non-phenolic
- Nitrite free

APPLICATIONS

- Synthetic coolants and cutting fluids
- Industrial cooling towers
- Water based lubricants
- Alkaline metal cleaners
- Aerosol formulations
- Low foam alkaline cleaners
- Radiator fluid additive
- Treating alkaline cleaners
- Water based paints and coatings

Continued
Metal Panel Submersion Corrosion Testing using DeCORE APCI-95MOD

The bottom halves of the metal panels were submerged into a solution containing 0.25% & 1.0% by weight DeCORE APCI-95MOD in hard water (100 ppm as CaCO3 & 71 ppm as chloride) at room temperature. The top half of the panel was exposed to the vapor phase in closed glass containers. Photos taken after 120 days of testing.

DeCORE APCI-95MOD – Brass Panels

DeCORE APCI-95MOD – Copper Panels

DeCORE APCI-95MOD – AL Panels

DeCORE APCI-95MOD – Steel Panels

Metal Panel Descriptions

Brass Panels: #260 Brass Alloy (30% Zn / 70% Cu)
Aluminum Panels: #2024 Bare Aluminum
Copper Panels: #110 Copper (99.95% Cu)
Steel Panels: SAE 1010, cold rolled steel (mild carbon)

Continued
Metal Panel Submersion Corrosion Testing using DeCORE APCI-95MOD

The bottom halves of the metal panels were submerged into a solution containing 0.25% & 1.0% by weight DeCORE APCI-95MOD in hard water (100 ppm as CaCO3 & 71 ppm as chloride) at room temperature. The top half of the panel was exposed to the vapor phase in closed glass containers. Photos taken after one year of testing.

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<thead>
<tr>
<th>Brass Panels</th>
<th>Copper Panels</th>
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<td>Control-no Cl</td>
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<tr>
<td>1.0%</td>
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<table>
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