

DeCORE IDMT-100

DeCORE IDMT-100 is a water-soluble, low foaming, multi-metal, anionic corrosion inhibitor effective at low levels (0.25% - 0.5%). It is recommended to protect a variety of metals including aluminum, copper, brass, bronze, steel, cast iron, ferrous and non-ferrous metals in aqueous systems.

SPECIFICATIONS

Appearance @ 25°C:	Clear amber viscous liquid
Color* (Gardner):	12 max.
pH (1% in DW):	6.0 – 8.0

*darkens upon aging

SOLUBILITY (10% by weight): DeCORE IDMT-100 is soluble in water, alcohols and glycols. It is insoluble or dispersible in solvents and oils.

TYPICAL PROPERTIES

% Activity	99% min.
Density @ 25°C	~1.0 g/ml

- Corrosion inhibitor for metal in aqueous systems at pH ≥ 7
- Not stable in acid systems
- Effective on multiple metals including aluminum
- Low – moderate foaming
- Hydrotrope for alkaline systems
- Effective at low use levels (0.25 – 0.5%)
- Azole-free
- Non-phenolic, phosphate-free
- Nitrite-free
- Biodegradable

APPLICATIONS

- Alkaline metal cleaners
- Synthetic coolants & cutting fluids
- Industrial cooling towers
- Water based lubricants
- Aerosol formulations
- Low foam alkaline cleaners
- Radiator fluid additive
- Treatment baths for copper & copper alloys
- Water based paints and coatings

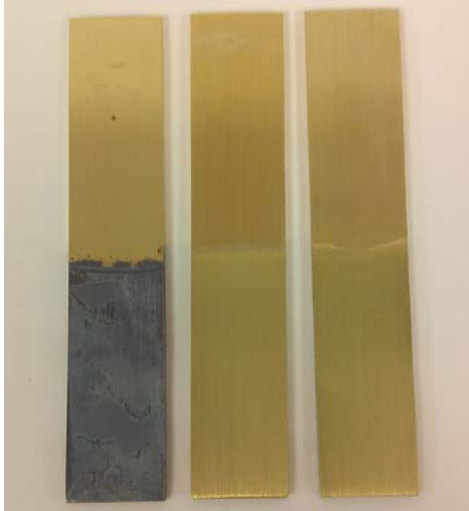
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Metal Panel Submersion Corrosion Testing using DeCORE IDMT-100

The bottom halves of each metal panel were submerged in solutions containing 0.25% - 0.5% DeCORE IDMT-100 by weight, 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.

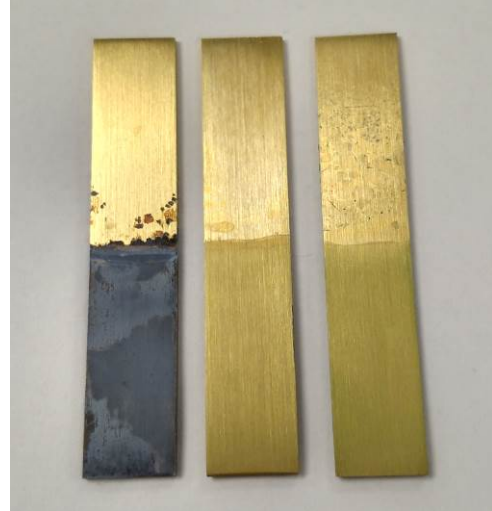
Brass Panels: #260 Brass Alloy (30% Zn / 70% Cu)

3 Months



Blank 0.25% 0.5%

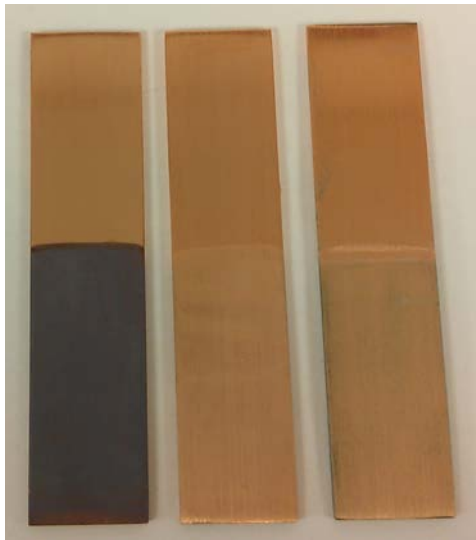
9 Months



Blank 0.25% 0.5%

Copper Panels: #110 Copper (99.95% Cu)

3 Months



Blank 0.25% 0.5%

9 Months



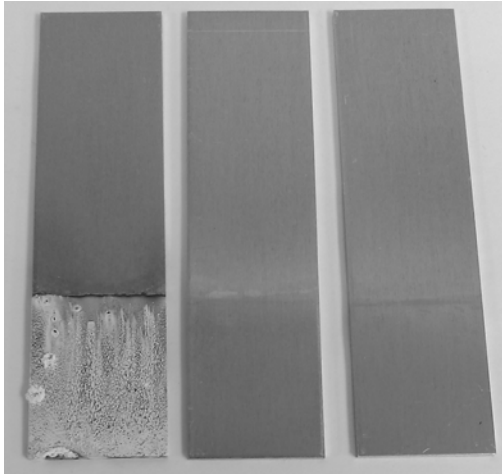
Blank 0.25% 0.5%

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Aluminum Panels, #2024 Bare Aluminum

3 Months



Blank 0.25% 0.5%

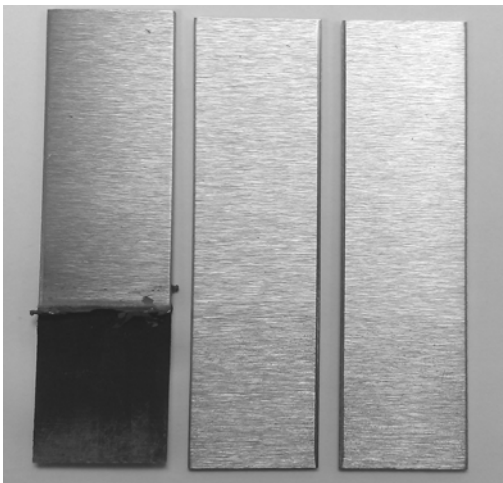
9 Months



Blank 0.25% 0.5% 1.0%

Steel Panels: SAE 1010 Cold rolled steel (mild carbon)

3 Months



Blank 0.25% 0.5%

9 Months



Blank 0.25% 0.5% 1.0%