

## 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  $\geq 7$
- 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

*Continued*

6501 Congress Avenue, Suite #100 • Boca Raton, FL 33487 • (561) 994-9696 • FAX (561) 994-9995  
[www.DeForestEnterprises.com](http://www.DeForestEnterprises.com) • [info@DeForestent.com](mailto:info@DeForestent.com)

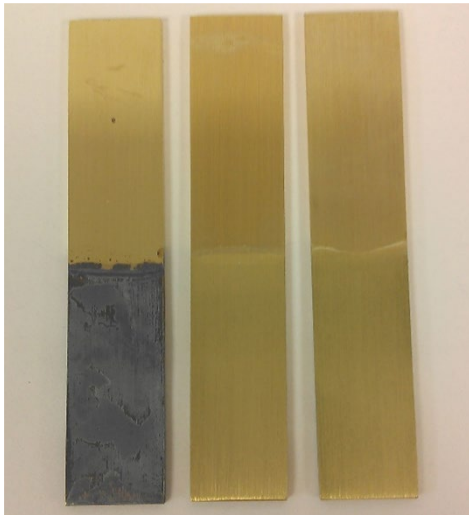
The information and suggestions given are drawn from data we believe to be reliable, but in all cases the user should check and confirm the suggestions and results in his/her own use before proceeding further. DeFOREST Enterprises, Inc. offers no warranties other than to guarantee the products are manufactured to specifications and cannot assume any liability or risk involved in the use of our products since these conditions of use are beyond our control. None of the suggestions or recommendations constitute freedom from any patents that may be existent in the field or be issued.

### **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 CaCO<sub>3</sub> & 71 ppm as chloride) at room temperature. The top half of the panel was exposed to the vapor phase in closed glass containers.

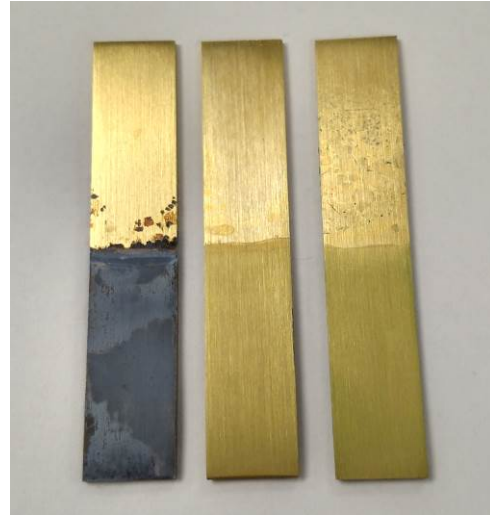
#### **Brass Panels: #260 Brass Alloy (30% Zn / 70% Cu)**

**3 Months**



Blank 0.25% 0.5%

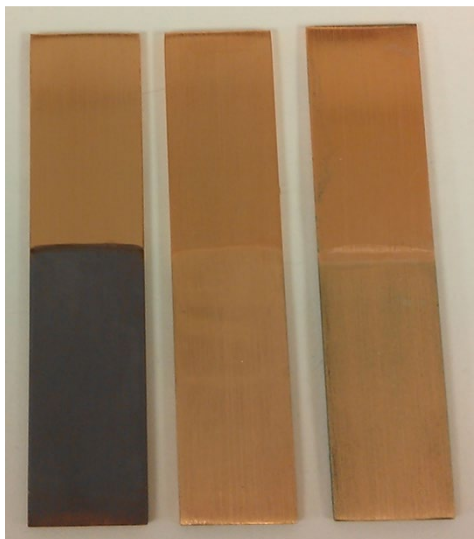
**9 Months**



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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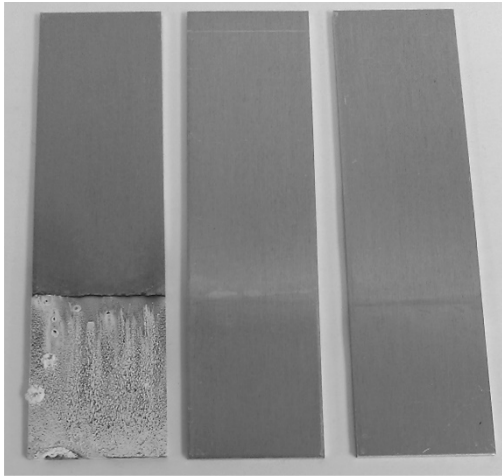
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**Aluminum Panels, #2024 Bare Aluminum**

**3 Months**



Blank      0.25%      0.5%

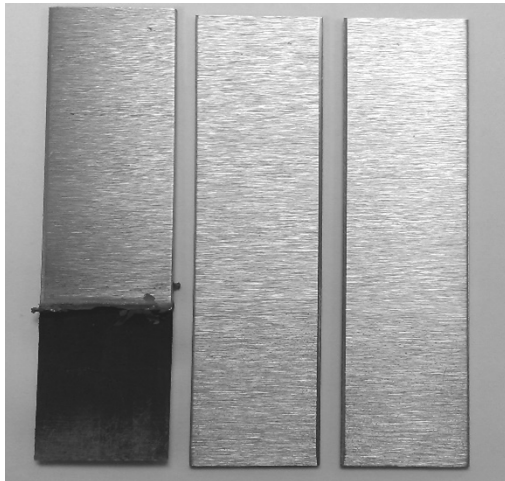
**9 Months**



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%