



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

Appearance @ 25°C:	Clear amber viscous liquid
Color* (Gardner):	12 max.
pH (1% in DW):	7.0 +/- 0.5

*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

Amtec Center • 6421 Congress Avenue • Boca Raton, FL 33487 • (561) 994-9696 • FAX (561) 994-9995
www.DeForestEnterprises.com • info@DeForestent.com

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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

30 days elapsed @ RT & 50°C

No Inhibitor **0.5% @ RT** **0.5% @ 50°C**



90 days elapsed @ RT

No inhibitor **0.25%** **0.5%** **1.0%**



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

No Inhibitor **0.5% @ RT**



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