



LMG-30B[®]

Vanadium Corrosion and SO₃ Inhibitor Additive



DESCRIPTION

LMG-30B[®] corrosion inhibitor is a boiler/furnace quality, oil-soluble, organo-magnesium fuel additive for vanadium inhibition in crude oil and residual grade fuel oils. It is particularly recommended to combat high-temperature vanadium corrosion in industrial boilers and furnaces designed to operate on heavy fuels. **LMG-30B[®]** also helps prevent asphaltene agglomeration and fouling of burners. **LMG-30B[®]** passivates cold end sulfur related corrosion and reduces stack opacity and acid rain output. This product provides a minimum thirty percent (30%) active magnesium in a non-abrasive and ready-to-use, highly soluble form.

APPLICATION

BOILERS AND FURNACES

Add **LMG-30B[®]** corrosion inhibitor directly to boiler or furnace liquid fuels contaminated with vanadium and sulfur. Add **LMG-30B[®]** corrosion inhibitor to circulated warm fuel and assure adequate mixing. Use a minimum of 0.67 ppm of *product* (by weight) for each ppm of vanadium and sodium present in the fuel (0.2 ppm of *magnesium* for each ppm of vanadium plus sodium present in the fuel) or 53 ppm of *product* for each one percent of sulfur in the fuel; whichever calculation is greater.

SAFETY AND HANDLING

LMG-30B[®] corrosion inhibitor is readily pumpable from unheated additive storage at temperatures above -10°F (-23 °C). It is stable in mild steel and aluminum storage tanks or in original containers over long periods of time. It is an industrial chemical and should be handled with the same precautions as used with ordinary distillates, solvents, and weak alkalis. Avoid open flame. Avoid skin and eye contact. Wash contaminated areas with soap and water.

TYPICAL PROPERTIES

Magnesium, wt%	30.0 min.
Magnesium Base	Carboxylate
Appearance	Dark brown liquid
Density at 60°F (16°C)	11.5 – 12.3 lbs/gal
Spec. Grav. at 60°F (16°C)	1.40 – 1.48
Flash Point	150°F (66 °C) min.
Pour Point	<-10°F (<-23°C)
Viscosity	
@ 100°F (38 °C)	< 150 cSt
@ 60°F (16 °C)	< 450 cSt
Compatibility with Fuel	Miscible
Water	Nil Wt%

AVAILABILITY

LMG-30B[®] corrosion inhibitor is supplied in bulk, net 275 U.S. gallon non-returnable totes, and net 55-U.S. gallon, non-returnable drums. Shipping classification: “Compound, Crude Petroleum Treating.”

Before handling, storage or use, see the Material Safety Data Sheet (MSDS) for details.

Liquid Minerals Group, Ltd. Customer Care Hotline:
+1-936-291-2424 (8 a.m. to 5 p.m. CST)

Emergency – Chemtrec 800-424-9300 (US)
703-527-3887 (Intl)

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