



# LMG-30B<sup>®</sup>

Vanadium Corrosion and SO<sub>3</sub> Inhibitor Additive



## DESCRIPTION

**LMG-30B<sup>®</sup>** corrosion inhibitor is a boiler/furnace quality, completely oil-soluble, 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. Helps prevent asphaltene agglomeration and fouling of burners. Passivates cold end vanadium/sulfur related corrosion. 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<sup>®</sup>** corrosion inhibitor directly to boiler or furnace liquid fuels contaminated with vanadium. Add **LMG-30B<sup>®</sup>** corrosion inhibitor to circulated warm fuel and assure adequate mixing by magnesium analysis. 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 and sodium present in the fuel) or 39 ppm of product for each one percent of sulfur in the fuel, whichever calculation is greater.

## SAFETY AND HANDLING

**LMG-30B<sup>®</sup>** 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.

**Disclaimer of Liability:** Liquid Minerals Group, Inc. (LMGI) warrants to purchaser, but no third parties or others, the specifications for the product shall fall within a generally recognized range for typical physical properties established by LMGI when the product departs LMGI's point of origin and that any services shall only be performed in accordance with applicable written work documents. LMGI MAKES NO OTHER WARRANTY OR GUARANTEE OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING ANY SERVICES PERFORMED OR PRODUCT SUPPLIED. LMGI will give purchaser the benefit of LMGI's best judgment in making interpretations of data, but does not guarantee the accuracy or correctness of such interpretations. LMGI's recommendations contained herein are advisory only and without representations as to the results. LMGI shall not be liable for any indirect, special, punitive, exemplary or consequential damages or losses from any cause whatsoever including but not limited to its negligence.

## 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<sup>®</sup>** 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, Inc. 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)