

Hybase[®] M-401

Overbased Magnesium Sulfonate

Hybase[®] M-401 is a general purpose 400 TBN oil soluble overbased magnesium sulfonate. It is typically used as a detergent and rust inhibitor in crankcase lubricants. Hybase[®] M-401 is compatible with most mineral base oils, white oils, and synthetic base stocks.

APPLICATIONS

Automotive, diesel, marine, railroad and stationary diesel lubricants.

TYPICAL TREAT

Nominal dosages would range from 0.5 to 5.0 wt. % of the finished lubricant.

TYPICAL DATA

PROPERTIES	TEST METHOD	TYPICAL VALUES
Magnesium, wt. %	ASTM D4951	9.3
Magnesium Sulfonate, wt. %	ASTM D3712	28.0
Total Base Number, mg KOH/g	ASTM D2896	395
Water, wt. %	ASTM D95	0.4
Viscosity @ 100°C, cSt	ASTM D445	150
Flash Point, COC °C	ASTM D92	220
Specific Gravity 15°C	ASTM D4052	1.110
Color (dilute), rating	ASTM D1500	4.0
Sediment, vol. %	ASTM D2273	0.02
Sulfur, wt%	ASTM D4951	2.00



HANDLING INFORMATION

Hybase® M-401 is a liquid overbased magnesium sulfonate and is normally handled at elevated temperatures. For general purposes, the following storage and handling temperatures are recommended:

Storage	Handling
60-80°C (140-176°F)	80-90°C (176-194°F)

SAFETY INFORMATION

For more extensive information on the safe handling and use of this product, see the Safety Data Sheet.

SHIPPING INFORMATION

Petroleum Oil, N.O.I.B.N.

Tank cars, tank trucks and non-returnable 55-gallon steel drums.



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