

# Hybase<sup>®</sup> C-502

## Overbased Calcium Sulfonate

Hybase<sup>®</sup> C-502 is a 500 TBN oil soluble overbased calcium sulfonate. It provides the highest TBN of calcium carbonate available in a liquid, oil based format. Hybase<sup>®</sup> C-502 is typically used as a detergent and rust inhibitor in crankcase lubricants. It is designed as both a stand alone detergent as well as in conjunction with other detergent types such as calcium phenate. It is also suitable for thickening Calcium Sulfonate grease. Hybase<sup>®</sup> C-502 is compatible with most Group I, II, III, and IV base stocks.

### APPLICATIONS

Automotive, diesel, marine, railroad and stationary diesel lubricants as well as industrial lubricants and grease.

### TYPICAL TREAT

Nominal dosages would range from 0.5 to 30.0 wt.% of the finished lubricant.

### TYPICAL DATA

PROPERTIES	TEST METHOD	TYPICAL VALUES
Calcium, wt. %	ASTM D4951	18.5
Calcium Sulfonate, wt. %	ASTM D3712	22.0
Total Base Number, mg KOH/g	ASTM D2896	495
Water, wt. %	ASTM D95	0.3
Viscosity @ 100°C, cSt	ASTM D445	200
Flash Point (COC), °C	ASTM D92	200
Specific Gravity @ 15°C	ASTM D4052	1.290
Colour (dilute), rating	ASTM D1500	5.0
Sediment, vol. %	ASTM D2273	0.05

## HANDLING INFORMATION

**Hybase® C-502** is a liquid overbased calcium sulfonate and is normally handled at elevated temperatures for improved pumpability. For general purposes, the following storage and handling temperatures are recommended.

### DRUM STORAGE

15-40°C (60-104°F)

### BULK STORAGE

60-80°C (140-176°F)

### BULK HANDLING

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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