

Calcinate® OR

Overbased Calcium Sulfonate

Calcinate® OR is a 400 TBN first intent overbased calcium sulfonate. This product is a high quality sulfonate designed to be a component in metal working formulations providing the beneficial effects of alkalinity for neutralizing acid and superior demulsibility for rust inhibition. It also directly protects the metal surface from corrosion. The calcium to sulfonate ratio is optimized for good oil solubility and compatibility with other formulating components. Calcinate® OR is compatible with most mineral base oils, white oils, and synthetic base stocks.

APPLICATIONS

Metal working fluids, industrial lubricating oils.

TYPICAL TREAT

Nominal dosages would range from 0.5 to 10.0 wt. % of the finished lubricant.

TYPICAL DATA

PROPERTIES	TEST METHOD	TYPICAL VALUES
Calcium, wt. %	ASTM D4951	15.2
Calcium Sulfonate, wt. %	ASTM D3712	18.5
Total Base Number, mg KOH/g	ASTM D2896	405
Water, wt. %	ASTM D95	0.3
Viscosity @ 100°C, cSt	ASTM D2196	75
Flash Point, COC °C	ASTM D92	220
Specific Gravity 15°C	ASTM D4052	1.20
Color (dilute), rating	ASTM D1500	5.0
Sediment, vol. %	ASTM D2273	0.02
Free Alkalinity, mgKOH/g	ASTM D2273	10.0



HANDLING INFORMATION

Calcinat[®] OR is a liquid neutral calcium sulfonate and is normally handled at elevated temperatures. For general purposes, the following storage and handling temperatures are recommended:

STORAGE

60-80°C (140-176°F)

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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