

PRODUCT DATA SHEET

OCL-OSE OBM Secondary Emulsifier**Product Description**

OCL-OSE is a universal secondary emulsifier designed for use with primary emulsifiers in oil-based drilling fluids. It is suitable for diesel-, mineral-, and synthetic-based systems. The product enhances the strength of the emulsion film, significantly improving the stability, temperature resistance, and contamination tolerance of the drilling fluid over a wide oil-water ratio range (40/60–10/90). It also makes the drilling fluid system easier to maintain and shows excellent compatibility with primary emulsifiers and other treatment agents. The formulated oil-based drilling fluids can be weighted with barite, calcium carbonate, or hematite as needed.

Characteristics

- Mainly used as a secondary emulsifier in oil-based drilling fluids.
- Reduces oil-water interfacial tension and significantly improves system stability.
- Recommended dosage: 1.0%–1.5% for low-temperature OBM systems; 1.5%–2.0% for high-temperature systems.

Technical Specification**Physical and chemical performance specification**

Appearance	Homogeneous viscous liquid
Density, g/cm ³	0.86-1.05
Viscosity, (100 r/min, 20°C)	≥60.0
Flash point(°C)	≥70.0

Water-in-oil Drilling fluid performance specification

Emulsion-breaking voltage (V)	≥600.0
Visual Viscosity(MPa·s)	≤70.0
YP/PY, Pa/ (MPa·s)	≥0.30
Initial Shear Force, (Pa)	≥2.0
Final Shear Force, (Pa)	≥2.5
API FL, (ml)	≤3.0
HTHP FL, (ml)	≤8.0

Packaging and Storage

- Packed in 200L iron drums.
- Shelf life: one year under proper storage conditions.

Email: info@oilchemleader.com

Website: www.oilchemleader.com