

PRODUCT DATA SHEET

OCL-LXT-1 High-Temperature and Salt-Resistant Rheology Modifier for Drilling Fluids

Product Description

The high-temperature and salt-resistant rheology modifier OCL-LXT-1 is a graft copolymer synthesized from AMPS, acrylic acid, and pyrrolidone. It exhibits excellent thermal stability up to 220 ° C and performs effectively in freshwater, seawater, brine (including saturated brine), gypsum formations, polymer non-dispersed systems, high-calcium systems, and deep well drilling fluids. OCL-LXT-1 provides outstanding viscosity enhancement, shear strength improvement, and rheological stability, along with excellent fluid loss control. It is a new type of high-temperature and salt-resistant rheology modifier suitable for deep and high-temperature wells.

Characteristics

- Excellent viscosity and shear strength enhancement.
- Outstanding fluid loss control performance (up to 220 °C).
- Applicable to freshwater, seawater, and saturated brine drilling fluids.
- Recommended dosage: 2%–4%.

Technical Specification

Appearance	White to light yellow powder		
Moisture, % ≤	10		
15% brine slurry, hot rolling aged at 220 °C for 16 h:	Apparent viscosity, mPa·s ≥	25	
	Plastic viscosity, mPa·s ≥	15	
	API fluid loss, mL ≤	12	
	HTHP fluid loss (200 °C), mL ≤	40	

Packing and Storage

- Packed in double-layer woven bags with an inner plastic liner, or in triple-layer composite bags, 25 kg net weight per bag.
- The product should be stored in a ventilated, dry, and clean warehouse.
- Shelf life: two years

Email: info@oilchemleader.com

Website: www.oilchemleader.com