SUPER-LIG™

LIGNITE

DESCRIPTION

SUPER-LIG is a North Dakota, USA lignite that naturally contains a high content of humic acid. It is an excellent, economical viscosity and filtration control agent for use in all water based mud systems, SUPER -LIG serves to stabilize oil-in-water emulsions and reduces viscosity in high temperature drilling operations. SUPER-LIG is partially soluble, heat stable above 400°F (204.4°C) and an effective thinning agent in both high and low pH mud systems. SUPER-LIG works best in an alkaline environment and functions best at a mud pH of 9.0 or above.

RECOMMENDED USE

May be used for all types of water based muds and oil-in-water emulsions. SUPER-LIG functions best in high pH environments and is tolerant of common mud contaminants, such as calcium up to 1000 ppm, making it suitable for use in cement contamination, lime, and gypsum mud systems.

CHARACTERISTICS

- Excellent control of fluid loss with extended temperature limits
- Maintains high filtrate resistivity values in low pH muds
- Works best at pH above 9.0
- Meets or exceeds all applicable petroleum industry standards for lignite product quality
- Tolerant of other mud additives in moderate quantities

MIXING AND APPLICATION

Pre-solubilize SUPER-LIG with caustic soda (4:1) for best results. Add 2-12 lb/bbl (5.7-34.2 kg/m³) of SUPER LIG to the freshwater drilling fluid. In higher salinity mud systems, it is best to premix SUPER-LIG in normal pH freshwater to ensure dispersibility and then add premix to the active mud system.

PACKAGING

~50 lb (~22.7 kg) bag, 56 per pallet or ~1 ton supersacks. All pallets are plastic-wrapped.

TECHNICAL SPECIFICATIONS	
Property	Typical Value
Moisture %	14 - 22% (as shipped)
Bulk Density	45 lbs/ft^3
Color	Blackish Brown
Particle Sizing (Mesh)	35% Minimum passing #200 mesh sieve (74 Microns)
pH	3.5 - 5.0 @1% Solids
Solubility	65 - 85%

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MINERALS TECHNOLOGIES
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