

SUPER-TREAT®

CAUSTIC LIGNITE

DESCRIPTION

SUPER-TREAT is a caustic, North Dakota, USA lignite containing high concentrations of humic acid. It is used effectively as a mud-thinning agent in high-temperature and high-pressure well drilling. It is pretreated for compatibility with both low and high pH systems and is a quick reacting, free-flowing agent that reduces viscosity, fluid loss, and gel strength. SUPER-TREAT 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-TREAT works best in an alkaline environment and therefore preferentially used at a pH of 9.0 or above.

RECOMMENDED USE

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

CHARACTERISTICS

- Excellent control of fluid loss with extended temperature limits
- Faster reaction time with no customer addition of caustic soda
- Improves electrical logging characteristics via increased solubility
- Increases lubrication and decreases viscosity
- Improved contaminant resistance, particularly divalent cations
- Meets or exceeds all applicable petroleum industry standards for caustic lignite product quality

MIXING AND APPLICATION

Add 2-12 lb/bbl (5.7-34.2 kg/m³) of SUPER-TREAT to the freshwater drilling fluid. In higher salinity mud systems, it is best to premix SUPER-TREAT 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 %	9 to 13% (as shipped)
Bulk Density	45 lbs/ft ³
Color	Blackish Brown
Particle Sizing (Mesh)	35% Minimum passing #200 mesh sieve (74 Microns)
pH	9.0 - 10.0 @1% Solids
Solubility	65 - 85%

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