



## Petroleum Products

# Potassium Lig<sup>®</sup>

### Potassium Lignite

Potassium Lig is chemically modified to deliver a higher degree of synergy with lignosulfonates in drilling fluids. It has the same lignite base as Super Treat, but also contains a potassium hydroxide additive to control stabilization of water sensitive shale formations in high-temperature deep-zone drilling operations. Potassium-Lig is compatible with other mud system additives and is not adversely affected by contaminants in the system.

### Advantages

- Acts as both a dispersant and fluid loss control agent in HTHP drilling
- Maintains effectiveness over a wide pH range
- Capable of working in either fresh or salt water mud systems

## Technical Specifications

Product	Bulk Density (lbs./ft <sup>3</sup> )	Moisture (As Shipped)	pH	Mesh Sizing	Solubility	Color
Potassium Lig	Typically 45	9% - 13%	9.0 - 10.0 @ 1% solids	35% minimum passing 200 mesh (74 microns)	75% minimum	Blackish brown

Packaging: Bulk or palletized in carload and truckload quantities. 50 lbs. multiwall, water-resistant bags or 2,000 lbs. bulk bags.

## Typical Chemical Analysis

Product Dry Basis (% by Weight)	Bulk Density (lbs./ft <sup>3</sup> )	Moisture	pH
Carbon	45.0	Na <sub>2</sub> O	8.46
Oxygen	19.7	MgO	0.86
Hydrogen	2.9	CaO	2.84
Nitrogen	0.9	Fe <sub>2</sub> O <sub>3</sub>	1.57
Sulphur	1.5	Al <sub>2</sub> O <sub>3</sub>	1.42
Ash	30.0	K <sub>2</sub> O	0.19
		Cr <sub>2</sub> O <sub>3</sub>	0.43

