

**Technical Data Sheet
Potassium Lignite**

Revised 09/21/06

Potassium-Lig

Description	Potassium-Lig is a potassium lignite that is chemically modified so that it delivers a higher degree of synergy with lignosulfonates in drilling fluids.
Functional Use	Potassium-Lig 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. It is compatible with other mud system additives, and is not adversely affected by contaminants in the system.
Advantages	Potassium-Lig acts as both a dispersant and fluid loss control agent in high-temperature, high-pressure drilling. It will maintain effectiveness over a wide pH range in either fresh or salt water mud systems.
Mesh Sizing	Minimum 35% passing 200 mesh (74 microns)
Solubility	75% minimum

Typical Chemical Analysis

	Dry Basis (% by wt)			
Carbon	45.0	Na ₂ O	8.46	
Oxygen	19.7	MgO	0.86	
Hydrogen	2.9	CaO	2.84	
Nitrogen	0.9	Fe ₂ O ₃	1.57	
Sulphur	1.5	Al ₂ O ₃	1.42	
Ash	30.0	K ₂ O	0.19	
		Cr ₂ O ₃	0.43	

pH	9.0 - 10.0 @ 1% solids
Color	Blackish-Brown
Bulk Density	Typically 45.0 lbs/ft ³
Moisture	9% - 13% as shipped
Packaging	Bulk or palletized in carload and truckload quantities. 50 lb. multiwall, water-resistant bags or 2,000 lb. bulk bags

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