

**Technical Data Sheet
Caustized Lignite**

Revised 09/28/06

SUPER-TREAT®

Description	Is a caustized, North Dakota lignite. Super Treat is used effectively as a mud thinning agent in high-temperature, high-pressure deep well drilling.		
Functional Use	Super treat is processed to be used effectively in both low and high pH systems. It is a quick reacting, free-flowing agent, which reduces fluid loss and gel strength.		
Advantages	<p>Faster reaction time with no addition of caustic soda Used in both low and high pH mud systems Excellent control of fluid loss with extended temperature limits Increased lubrication and viscosity Increased resistance to contamination Improved electrical logging characteristics Super Treat meets or exceeds all applicable petroleum industry standards for causticized lignite product quality</p>		
Mesh Sizing	Minimum 35% passing 200 mesh (74 microns)		
Solubility	65% - 85%	Typical Chemical Analysis	
pH	9.0 - 10.0 @ 1% solids	Dry Basis (% by Weight)	
Color	Blackish Brown	Carbon	42.8
Bulk Density	Typically 45.0 lbs/ft ³	Na ₂ O	7.25
Moisture	9% to 13% as shipped	Oxygen	24.0
Packaging	Bulk or palletized in carload and truckload quantities. 50 lb. multiwall, water-resistant bags or 2,000 lb. bulk bags.	MgO	0.05
		Hydrogen	3.0
		Nitrogen	0.9
		CaO	2.94
		Fe ₂ O ₃	1.14
		Sulphur	2.0
		Al ₂ O ₃	1.68
		Ash	29.7
		K ₂ O	0.20

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