

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

Typical Chemical Analysis

Dry Basis (% by Weight)

Carbon	42.8	Na ₂ O	7.25
Oxygen	24.0	MgO	0.05
Hydrogen	3.0	CaO	2.94
Nitrogen	0.9	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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