



## Petroleum Products

# Super Treat<sup>®</sup>

### Caustic Lignite

Super Treat is a caustic, North Dakota lignite used effectively as a mud-thinning agent in high-temperature and high-pressure deep well drilling. It is processed for both low and high pH systems and is a quick reacting, free-flowing agent that reduces fluid loss and gel strength.

#### Advantages

- Faster reaction time with no addition of caustic soda
- Excellent control of fluid loss with extended temperature limits
- Increases lubrication and viscosity
- Increases resistance to contamination
- Improves electrical logging characteristics
- Meets or exceeds all applicable petroleum industry standards for caustic lignite product quality

### Technical Specifications

Product	Bulk Density (lbs./ft <sup>3</sup> )	Moisture (As Shipped)	pH	Mesh Sizing	Solubility	Color
Super Treat	Typically 45	9% to 13%	9.0 - 10.0 @ 1% solids	35% minimum passing 200 mesh (74 microns)	65 - 85% typical	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	42.8	Na <sub>2</sub> O	7.25
Oxygen	24.0	MgO	0.05
Hydrogen	3.0	CaO	2.94
Nitrogen	0.9	Fe <sub>2</sub> O <sub>3</sub>	1.14
Sulphur	2.0	Al <sub>2</sub> O <sub>3</sub>	1.68
Ash	29.7	K <sub>2</sub> O	0.2

