

# SUPERNITE®

ProductDataSheet

## OXIDIZED LIGNITE

## HTHP FLUID LOSS AND RHEOLOGY CONTROL AGENT

### Description

SUPERNITE® is a naturally occurring material used to reduce fluid loss and deflocculate water-based muds.

SUPERNITE® is partially soluble additive which provides thin, low-permeability filter-cake and acts as a secondary deflocculant and fluid loss control agent in high-temperature applications. It performs exceptionally well in dispersed mud systems and has a synergistic effect with RESITEMP® additive.

### Applications/Functions

- provides improved HTHP filtration control
- reduces viscosity and gel strengths
- extends the temperature stability of water-based muds
- improves filter-cake quality by reducing its thickness and permeability

### Advantages

- stabilizes rheological properties
- resistant to contaminants
- compatible with all types of water-based drilling fluids

### Recommended treatment

It is recommended to pre-solubilize SUPERNITE® with caustic soda (4:1) for best results. Normal

treatments of SUPERNITE® lignite range from 1 to 8 lb/bbl (2.85 to 22.8 kg/m<sup>3</sup>). Due to their low pH, SUPERNITE® lignite treatments require additional caustic soda or an alternative alkaline material, to maintain a consistent pH. A normal ratio is one sack of caustic soda for every four sacks of SUPERNITE® lignite. In high-salinity systems, it is preferable to premix the SUPERNITE® lignite in medium-pH freshwater to enhance dispersibility then add the premix to the active system. It is most effective in mud systems with an alkaline pH in the range of 9 to 11.

### Typical properties

Appearance - Dark brown to black powder

### Handling

Please refer to the MSDS for specific instructions

### Packaging

SUPERNITE® oxidized lignite is packaged in 50lbs (22.68 kg) or 55lbs (25 kg) bags.

Disclaimer: Prior to using this product, the user is hereby informed and cautioned to make their own determination and assessment of the safety and applicability of the product for the specific job. It is the final responsibility of the user to ensure that the product is suitable and the information is applicable to the user's specific application.

