

CAUSTICIZED LIGNITE

INVERSE AND WATER-BASE ADDITIVE

Technical Bulletin

CAUSTICIZED LIGNITE is a rheology controller and filtration reducer, extends temperature limits, emulsifies oil, reduces flocculation and stabilizes water-base drilling fluids. In solution, it has an alkaline pH, therefore it does not require large caustic additions to maintain a stable pH. **CAUSTICIZED LIGNITE** is a partially soluble additive that provides thin, low-permeability filter cakes accompanied by low fluid loss. It is especially effective in high-temperature applications and in dispersed systems as a synergistic additive with lignosulfonates. It can be used in practically in any water-base fluid.

Typical Physical Properties

Physical appearance.....	Black powder
Specific gravity.....	1.6 - 1.8
pH (1% solution).....	9 - 10
Bulk density.....	0,75 – 0,80 gr/cm ³
Grind Size – Mesh	20- 35 %

Applications and Functions

CAUSTICIZED LIGNITE can be used to control the rheology and filtration in water-base or oil-base muds and for helping to maintain a constant pH. It is especially effective in stabilizing mud's properties exposed to high temperatures and contaminants such as calcium.

CAUSTICIZED LIGNITE does not require additional treatments with caustic soda. Normal treatments of **CAUSTICIZED LIGNITE** range from 1 to 10 lb/bbl (2.85 to 28.5 kg/m³). In high-salinity systems, it is preferable to premix the **CAUSTICIZED LIGNITE** in freshwater to enhance dispersibility, and then add the premix to the active system. **CAUSTICIZED LIGNITE** is most effective in mud systems with an alkaline pH in the range of 9 to 11.

Advantages

- * Filtration reducer
- * Helps maintaining a constant pH
- * Reduce caustic soda treatments.
- * Significantly extends the temperature ranges where the water-base and oil-base fluids stay stable.
- * Resists the effects of contamination.
- * Improves filter cake quality by reducing its thickness and permeability.
- * Reduces wall-sticking tendencies.



Injection and Environmental Products

- * Stabilizes rheological properties.
- * Compatible with a wide range of water-base and oil-base systems.
- * Contains fewer heavy metals compare to other deflocculates.

Toxicity and Handling

Bioassay information is available upon request. Handle as a chemical, wearing protective equipment and observing the precautions as described on the Safety Data Sheet.

Packaging and Storage

The product is presented in sacks of 25 kg. Store in a dry and cool location is recommended.

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