LIGNO C

Thinner & Dispersant

Product Description

LIGNO C chrome lignosulfonate is a multi-purpose deflocculant and gel-strength reducer, temperature stabilizer and filtration-control additive for use in all water-base systems.

Typical Physical Properties

Physical appearance	Dark brown powder
Specific gravity	1.2-1.4
Solubility	37 lb/ft3 (590 kg/m^3)
Flash Point	2.8-4

Application

LIGNO C additive has proven to be an excellent all-purpose deflocculant and fluid-loss-control agent. It is effective for viscosity control and fluid-loss reduction in all water-base mud systems, including freshwater, brackish water, seawater, salt, lime, gypsum and potassium systems. Laboratory tests and field usage have demonstrated the superior deflocculating ability of LIGNO C additive even in the presence of contaminants and elevated temperatures.

Advantages

- Compatible with all water-base mud systems
- Temperature tolerance in the 325° to 350°F (163° to 176°C) range
- Helps reduce fluid loss without high concentrations of clay or filtration control additive
- Effectively inhibits bentonitic cuttings and/or shale hydration when used in sufficient concentrations
- Tolerant to, and continues to function in, the presence of contaminants
- Contains the more acceptable Cr^{+3} chrome valence state.

Limitations

- Most effective in alkaline systems with a pH of 9.5 or above
- Contains chrome which is not acceptable for all applications, depending on local environmental regulations and considerations

Recommended Treatment

Normal treatments of LIGNO C additive range from 1 to 12 lb/bbl (2.85 to 34.2 kg/m^3). Initial treatments usually range from 1 to 6 lb/bbl (2.85 to 17.1 kg/m3), depending on the mud system, solids concentrations and the desired results; treatments can be added easily to the system through the mud hopper. Due to the product's low pH, LIGNO C additive 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 LIGNO C additive. It is most effective in mud systems with an alkaline pH in the range of 9 to 11. For lower pH systems, the product can be premixed in a higher-alkalinity solution prior to being added to the active mud system.

Packaging and Storage

LIGNO C is packaged in 50-lb (22.7-kg), multi-wall, paper sacks. Store in a dry location away from sources of heat or ignition, and minimize dust.