

SPERSENE

SPERSENE* 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
Bulk density	37 lb/ft ³ (590 kg/m ³)
pH (1% solution)	2.8-4

Applications

SPERSENE 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, gyp and potassium systems. Laboratory tests and field usage have demonstrated the superior deflocculating ability of SPERSENE additive even in the presence of contaminants and elevated temperatures.

Normal treatments of SPERSENE additive range from 1 to 12 lb/bbl (2.85 to 34.2 kg/m³). 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, SPERSENE 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 SPERSENE 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.

Advantages

- Highly effective deflocculant and rheology stabilizer
- 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 additives
- 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; SPERSENE CF, a chrome-free lignosulfonate, is available for these applications

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

SPERSENE additive is packaged in 50-lb (22.7-kg), multi-wall, paper sacks.

Store in a dry, well-ventilated area. Keep container closed. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.



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