

THINSMART

THINSMART* additive is an organic material that is used to control the rheological and fluid-loss properties of water-base drilling fluids.

It is temperature stable and performs well in most water-base muds.

Typical Physical Properties

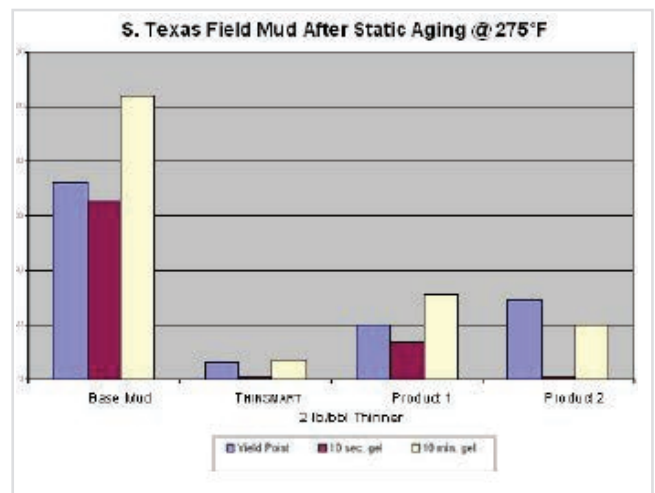
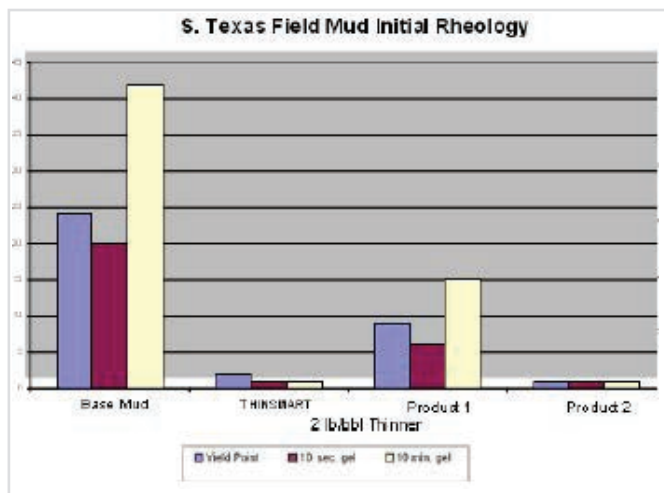
Physical appearance	Reddish-brown powder
Specific gravity	1.6 – 1.8
pH (1% solution)	4 – 5

Applications

THINSMART additive is designed to be used in virtually all water-base drilling fluids to deflocculate drill solids and provide fluid-loss control. It is effective at temperatures greater than 300°F (149°C). Its performance is not significantly affected by contaminants. It overcomes cement contamination and reacts with calcium to lessen the contaminating effects on the drilling fluid.

The effectiveness of the THINSMART-treated drilling fluid systems is reduced in very high salinity fluids. In such situations, pre-solubilize the THINSMART additive in fresh water treated with caustic soda before adding it to the drilling fluid.

Typical treatment levels are from 1.0 to 6.0 lb/bbl (2.9 to 17.1 kg/m³). Initial treatments may be as low as 0.25 lb/bbl (0.7 kg/m³) depending on the mud weight, bentonite and drill solids content of the fluid.



Advantages

- Very effective thinner
- Improves filtration control
- Improves filtercake quality
- Chrome-free
- Extends the temperature stability of water-base muds
- Resists contamination
- Reduces wall-sticking tendencies
- Stabilizes rheological properties
- Compatible with a wide range of water-base systems

Limitations

- Degraded performance in high-salinity fluids. Pre-solubilize in fresh water treated with caustic soda before adding to the drilling fluid. Maintain a minimum pH of 9.0.

Toxicity and Handling

Bioassay information is available upon request.

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

Packaging and Storage

THINSMART additive is packaged in 25-lb (11.4-kg) multiwall, paper sacks.

Store in 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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