

Chemical Properties

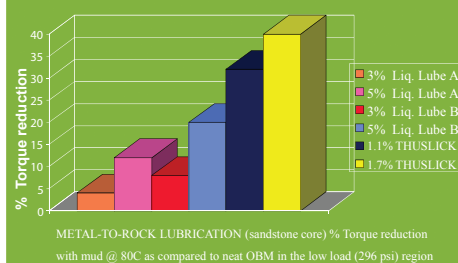
Chemical Composition:	Specialty encapsulation carbon material
Appearance:	Black powder particles
Bulk Density:	0.83 kg / liter
Temperature Stability:	Excess of 500°C.
pH (@ 10% in water):	8.4
Solubility:	Insoluble in oil or water
Compatibility:	Anionic, non-ionic and cationic polymers; Polyethylene/polypropylene glycols, oil base fluids and brines
Quality Control:	Produce in conformance with ISO 9002
Packaging:	40 lb., 50 lb., and 55 lb. sacks

Product Description

Carbon  Silicone

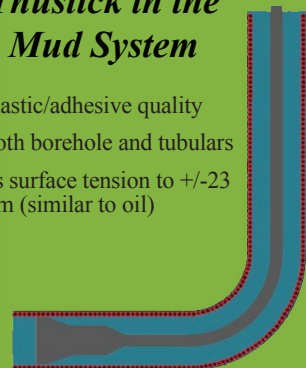
- Thuslike is a specialty treated encapsulated high carbon material
- Packaged in 40 lb., 50 lb., and 55 lb. sacks
- Thuslike is completely inert in mud
- Temperature stable to > 500°C
- Universal compatibility with any fluid
- Mixing is simple (3 min. at hopper)
- Long storage life (water repellent)

ADDITIVE EFFICIENCY @ 80° C in oil base mud with 296 psi load

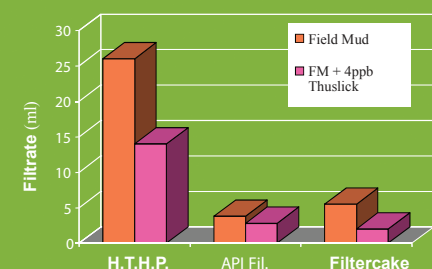


Thuslick in the Mud System

- Has a plastic/adhesive quality
- Coats both borehole and tubulars
- Reduces surface tension to +/-23 dynes/cm (similar to oil)



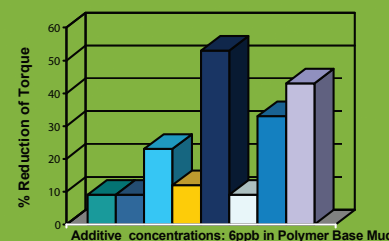
H.T.H.P. FILTRATE EFFECT OF THUSLICK ON KCL/GYP FIELD MUD



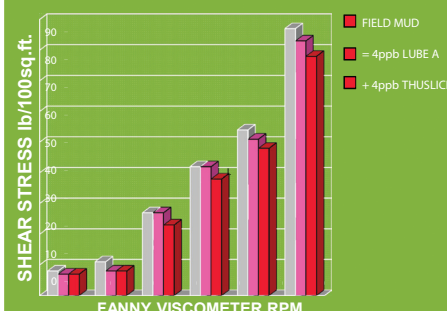
Lubricity Comparison

Temperature Effect on Performance of Additives

- BASE MUD @20C
- GILSONITE @20C
- BASE MUD @80C
- GILSONITE @80C
- ASPHALT @20C
- THUSLICK @20C
- ASPHALT @80C
- THUSLICK @80C



Rheology Effect of Thuslick on Rheology (KCL/GYP MUD)



Direct Benefits

Lowers Surface Tension

Diamond and PDC bits can be used in water base muds

Maximizes air and gas breakout

Eliminates de-foamers

Optimizes solids separation

Minimizes dilution requirements

Excellent lubricity in oil base muds

Extends temperature stability of polymers in water base muds

Formation Coating

Mechanically stabilizes shales

Repels water

Lowers HP-HT

Reduces seepage losses

Good cuttings quality

Good core quality

Enhances lift-off in testing/completion operations

Reduces rates of corrosion

Enhances Lubricity

Minimizes downhole friction force

Enhances directional drilling operations

Optimizes rate of penetration and effective weight on bit

Minimizes rotary torque

Optimizes tripping

Eliminates balling

Minimizes casing and tubular wear

Near-gauge borehole

Improves casing/cement jobs

Improves logging operations

Environmental

Totally inert material

100% environmentally safe/non-toxic

Compatible with all mud systems

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Thuslick™

Ecology Thru Technology

"Environmentally Friendly Green Product"



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