

SILICONIZED GRAPHITE is a fine-sized lubricant agent used as a lubricant in water-, oil- or synthetic-base mud systems. When drilling exhausted zones, where high differential pressures exist, the lubrication properties of **SILICONIZED GRAPHITE** reduce the sticking tendencies due to differential pressures. It can be used to control the partial seepage in severe lost-circulation zones. **SILICONIZED GRAPHITE** is a completely inert and does not affect rheological properties. **SILICONIZED GRAPHITE** reduces torque and drag by increasing the lubrication. **SILICONIZED GRAPHITE** lowers the spurt and total filtrate loss values in PPT.

Typical Physical Properties

Physical appearance.....Dark, gray to black powder
Bulk density.....0.76 – 0.80 gr/cm³
Solubility in water.....insoluble
Grind SizeD₅₀ approximately 325

Applications and Functions

SILICONIZED GRAPHITE is designed as a powerful lubricant.

The recommended treatment (< 10 bbl/hr) is 15 to 20 lb/bbl (43 to 57 kg/m³) in spotted pills. The pills can be incorporated into the entire system for a total concentration of 5 to 10 lb/bbl (14 to 29 kg/m³). However, when the pills returns to the surface, the shaker screens must be monitored for possible losses and changed if it is necessary.

The recommended treatment for more severe cases is between 20 and 50 lb/bbl (57 to 143 kg/m³) in spotted pills.

SILICONIZED GRAPHITE can be used in combination with other materials to control severe lost-circulation.

SILICONIZED GRAPHITE may require additional sticking agent when using it in oil- or synthetic-base mud systems.

Advantages

- * Increases lubrication, reduce torque and drag in all mud systems.
- * Inert material with no adverse effects on the mud rheology and compatible with all mud systems.
- * Do not require other additives, easily mixed and dispersed into the system.
- * Thermo-stable while working at temperatures higher than 500°F (260°C).



Limitations

- * Can be removed from the circulating system by shale shakers and other solids-control equipment. Requires close monitoring of the shale shakers.
- * Non-acid or water-soluble.
- * May not be suitable for open holes sections where acid solubility is required.

Toxicity and Handling

Bioassay information is available upon request. Handle as any other chemical product, wearing protective equipment and observing the precautions as described on Transportation & Materials Safety Data Sheet.

Packaging and Storage

The product is packaged in 25 kg multi-wall, paper sacks. Store in a dry area, away from heat or ignition sources and minimize the presence of dust.

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