



Description

Gilsonite is a type of natural asphaltic materials which are widely used as an effective filtration agent additive in oil-based and water-based drilling fluids. Gilsonite may be used in normal or HTHP environments. Other functions of Gilsonite are shale inhibition, preventing seepage loss circulation and differential stuck reduction.

Application

Gilsonite is an effective fluid loss controller in oil-based and water-based drilling fluids. In problematic shale layers, it can be used as borehole stabilizer. It is often used to plug pore throats of depleted formations to prevent loss circulation problems

Advantages

- Improves emulsion and thermal stability in oil-based drilling fluids.
- High temperature stability
- No need for surfactant or etc.
- Improves filter cake quality
- Reduce fluid loss in normal or HPHT environments
- Minimize unwanted torque and drag while drilling

Limitations

- Before field application, pilot test must be run and compatibility of Gilsonite with selected drilling fluid must be checked.

Treatment

Gilsonite can be added in initial mixing or as treatment while drilling. Typical Gilsonite concentrations range from 2 to 8 lb/bbl (5.7 to 23 kg/m³). When used in the initial formulation, it is recommended to be added to Oil-based drilling fluid at last stage of mud preparation. Form finding the optimum concentration of Gilsonite, running the pilot tests is highly recommended.

Typical Properties

APPEARANCE	Black powder
SPECIFIC GRAVITY	0.95 – 1.14
ASH CONTENT	5 – 20%
FLASH POINT	600°F (316°C)
MELTING POINT	400°F (204°C) 400°F (204°C)

Packaging

Gilsonite is available in a 25 KG SXS.