

CLAYMINTON® OF-318

High Performance Suspension Additive for oil-based drilling fluids

■ GENERAL INFORMATION

CLAYMINTON® OF-318 is a high-performance HTHP (High Temperature High Pressure) bentonite-based organoclay specifically designed for use in oil-based drilling muds and other drilling fluids. It features excellent dispersibility and self-activation, making it effective in both diesel-based and mineral oil-based fluids.

As a high-performance rheology modifier, it offers excellent suspension properties, resistance to filtration loss, and lubricity. Notably, it can suspend weighting materials and other solids with minimal increases in viscosity and gel strength, which is crucial for maintaining optimal drilling fluid performance under challenging downhole conditions.

■ Physical Properties

Composition	Bentonite Organoclay
Colour & Appearance	White Powder
Moisture %	≤4
Particle Size (200Mesh Sieve %)	≥95
Specific Gravity (g/cm ³)	1.7-2.0

■ KEY APPLICATIONS

CLAYMINTON® OF-318 is recommended for diesel-based drilling fluid and mineral Oil Based Drilling fluid and invert emulsion drilling fluid.

CLAYMINTON® OF-318, the high-performance HTHP (High Temperature High Pressure) bentonite-based organoclay is indeed considered an efficient replacement for traditional organoclays in mud plant and on-site well applications. This advanced material offers rapid yield to prevent settling under low shear conditions, which is critical for maintaining the integrity of drilling fluids during operations. Moreover, it provides a good balance between rheological properties and moderate to high downhole temperature stability, making it particularly suitable as a primary rheological modifier in all-oil and invert emulsion muds based on diesel, mineral oil, polyalphaolefins (PAOs), linear alpha olefins (LAOs), isomerized alpha olefins, and modified oil-based fluids.

■ Product Highlights

- Highly efficient development of rheological properties and rapid yielding ability
- Super dispersible for oil field
- Superior suspension properties and controlling settling in diesel oil and mineral oil based on drilling fluid or mud
- Excellent static stability after hot rolling, without any syneresis or separation of oil
- Excellent resistance to filtration loss
- Temperature stable to 240 °C
- Not harmful to the environment

■ Formulation Consideration

The typical use levels and viscosities to be given will depend on base oil being used. Recognizing other ingredients can influence the ultimate YP/PV values, the final use level should be optimized to the target rheological values using the complete formulations. Some ladder studies would be considered before using.

■ Shipping & Packaging

Shipping Container	Net Weight
Pail/Carton/Bag	25kg

■ Product Shelf life

Its shelf life is two years from manufacturing date.

■ Product Safety & Additional Information

For handling, storage, health, and safety information and disposal procedures, as well as additional information, please refer to the Safety Data Sheet (SDS) and product label.

If you want to learn more about us, please contact our sales representative or login on our website.

www.renheng.com