

CLAYMINTON® WF-1

Cost Effective BENTONITE CLAY for Water Based Drilling Fluids

■ GENERAL INFORMATION

CLAYMINTON® WF-1 is one cost effective bentonite-based clay specifically designed for use in water based drilling muds and other drilling fluids. It features good dispersibility, suspension, suitable low to moderate temperature, good resistance to filtration loss etc.

As a rheology modifier, it offers good suspension properties, resistance to filtration loss, and lubricity. Furthermore, 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
Colour & Appearance	White Powder
Moisture %	<12
Particle Size (Through 200 Mesh Sieve %)	≥98
Specific Gravity (g/cm ³)	2.0-2.3

■ KEY APPLICATIONS

CLAYMINTON® WF-1 is recommended to water based drilling fluid & Mud. It is generally considered an efficient replacement for traditional Bentonite clay in mud plant and on-site well applications. This unique material offers good 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 low to moderate downhole temperature stability, making it particularly suitable as a primary rheological modifier in all water based drilling fluids or muds.

■ Product Highlights

- Efficient development of rheological properties and rapid yielding ability
- Good dispersibility
- Excellent suspension properties and control cutting settling
- Good static stability after hot rolling at 150°C
- Good resistance to filtration loss
- Temperature stable to 150 °C
- Not harmful to the environment
- Cost effective

■ Formulation Consideration

The typical use levels and viscosities to be given will depend on final formulations 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

The 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.

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