

## CLAYMINTON® WF-5

High Performance Suspension Additive for Water Based Drilling Fluids

### ■ GENERAL INFORMATION

**CLAYMINTON® WF-5** is a high-performance HTHP bentonite-based clay specifically designed for use in water based drilling muds and other drilling fluids. It features excellent dispersibility, suspension, high temperature stability and superior resistance to filtration loss etc.

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
Colour & Appearance	White Powder
Moisture %	≤12
Particle Size (Through 325Mesh Sieve %)	≥98
Specific Gravity (g/cm <sup>3</sup> )	<b>1.7-1.9</b>

### ■ KEY APPLICATIONS

**CLAYMINTON® WF-5** is recommended for water based drilling fluid& Mud.

It is indeed considered an efficient replacement for traditional Bentonite clay 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 water based drilling fluids.

## ■ Product Highlights

- Highly efficient development of rheological properties and rapid yielding ability
- Excellent dispersibility
- Superior suspension properties and control cutting settling
- Excellent static stability after hot rolling
- 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.

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[www.renheng.com](http://www.renheng.com)