

PRODUCTS BROCHURE Oil Field



CLAYMINTON INC

Zhejiang Chang'an Renheng Technology Co., Ltd
2025 Oil Field



CLAYMINTON INC

INTRODUCTION AND HISTORY

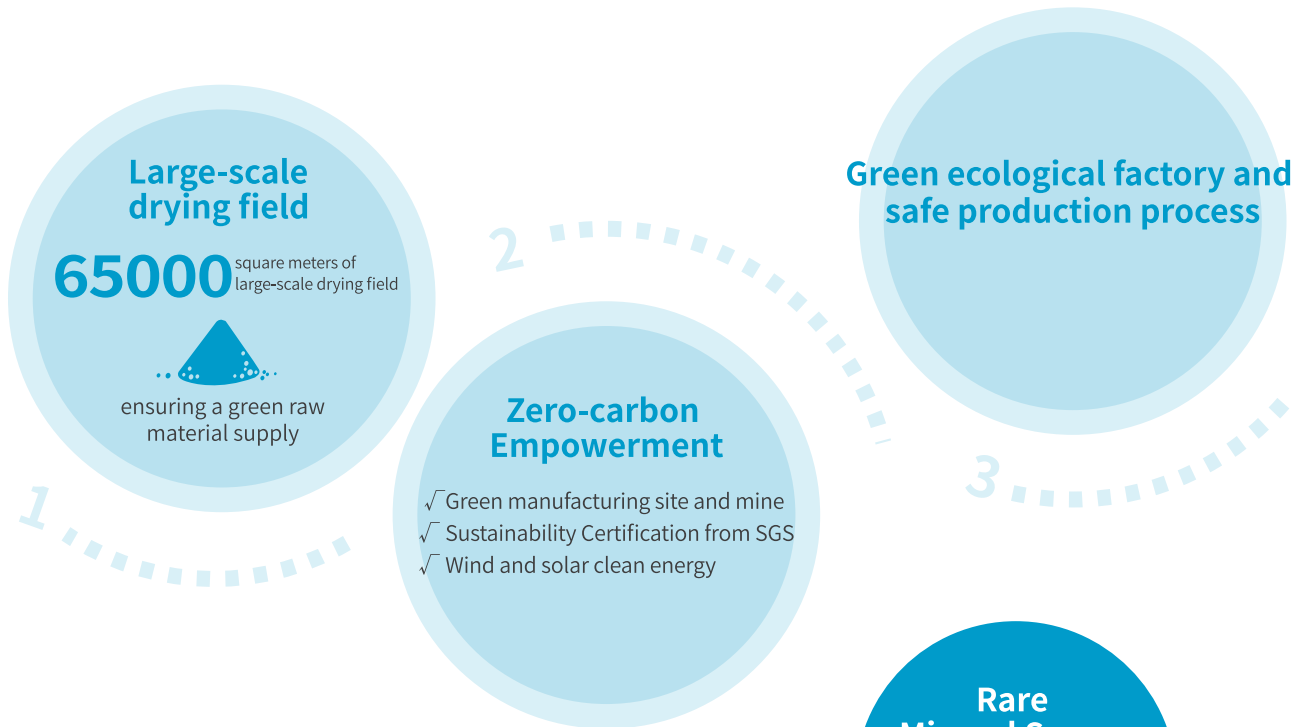
CLAYMINTON INC, a wholly owned subsidiary of **Zhejiang Chang'an Renheng Technology Co., Ltd**, is one of the world's leading manufacturers in inorganic rheology modifiers, specializing in bentonite clay performance products. The company was listed on the Hong Kong Stock Exchange in 2015. Its product lines are mainly used in various fields, including paints and coatings, inks, agricultural chemicals, oil fields, foundry, colorant, paper, printing ink, textile and other composite materials. We adhere to the principles of natural, low-carbon, healthy and sustainable development. We not only provide global customers with leading inorganic and organically Bentonite clay rheological additive solutions, but also offer professional technical service support and customer formulations optimization, to deliver a full range of innovative green solutions.



BENTONITE Rheology Modifier Innovative Solution

Nature, Heathier,
Sustainable Growth

Competitive Advantages



Rare Mineral Source

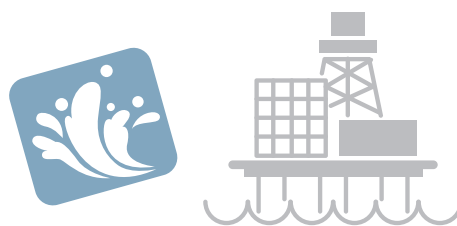
Unique raw ore that provides higher purity and whiteness



CLAYMINTON® Series

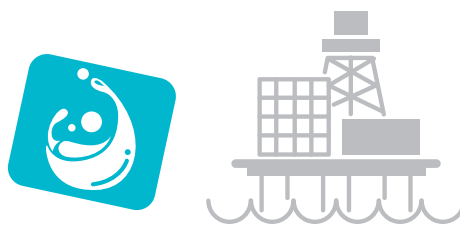


We offer the **CLAYMINTON® WF** series, which is specially designed for aqueous oilfield drilling fluids or muds.



CLAYMINTON® WF-5 AND CLAYMINTON® WF-6 are particularly SUITABLE FOR HIGH-TEMPERATURE AND HIGH-PRESSURE DRILLING SYSTEMS, WITH EXCELLENT dispersibility and suspension, excellent resistance to filtration loss. It not only provides excellent suspension properties for weighted materials and other solid cuttings, but also has less effect on the apparent viscosity of the system. They could significantly enhance the lubrication performance of drilling fluid, reduce the friction and wear of drilling tools. Compliant with **API 13A, Q/SY 17009-2019, Q/YRH04-2024 and GB/T5005-2010**.

CLAYMINTON® OF series products are designed for oil-based drilling fluid or muds, especially for diesel oil or mineral oil or other synthetic oil or Water-in-oil based drilling fluid or mud.



They performed self-activation, good dispersibility, excellent suspension property as well as excellent resistance to filtration loss. **CLAYMINTON® OF-217, CLAYMINTON® OF-218** and **CLAYMINTON® OF-318** are designed for HTHP drilling fluid or mud or other systems. They meet **Q/SH CGO190-2023, Q/SY 17817-2021** drilling fluid relevant standard.

According to the USA third party **Oilfield Testing and Consulting** laboratory, our oil-based products achieved excellent overall performance based on **API RP B** method in diesel oil-based drilling fluid guide formulation.



- **Highly efficient development of rheological properties**

- **Rapid yielding ability**

- **Eliminates the need for chemical activators.**

- **Superior suspension properties and controlling settling in diesel oil, mineral oil based drilling fluids or muds**

- **Excellent static stability after hot rolling, without any syneresis or separation of oil**

- **Excellent resistance to filtration loss**

- **Temperature stable to 220-240 °C**

- **Not harmful to the environment**

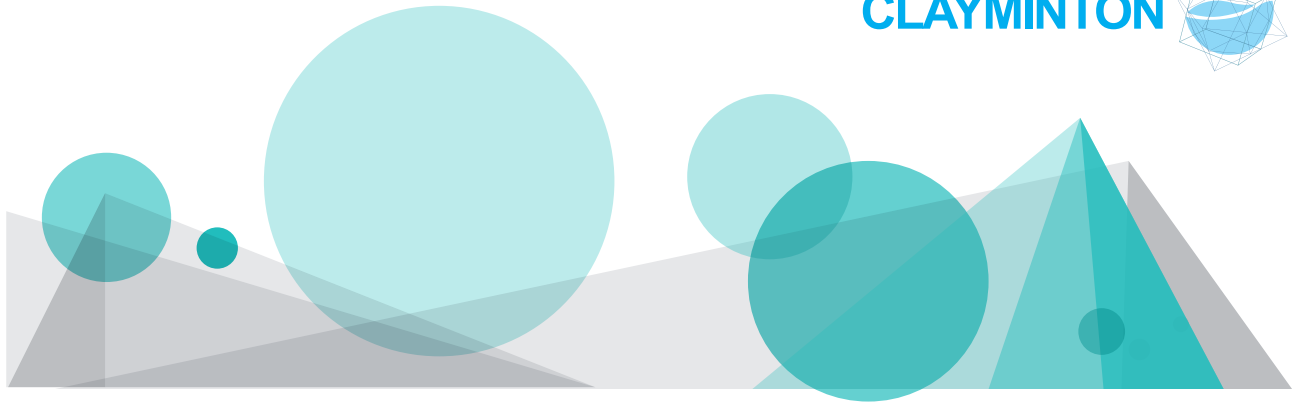
Our professional technical service team is committed to supporting customer formulation improvement, application development as well as product innovation, and enhance customer's drilling fluid performance.



CLAYMINTON® WF Series for Water Based Drilling Fluid & Mud

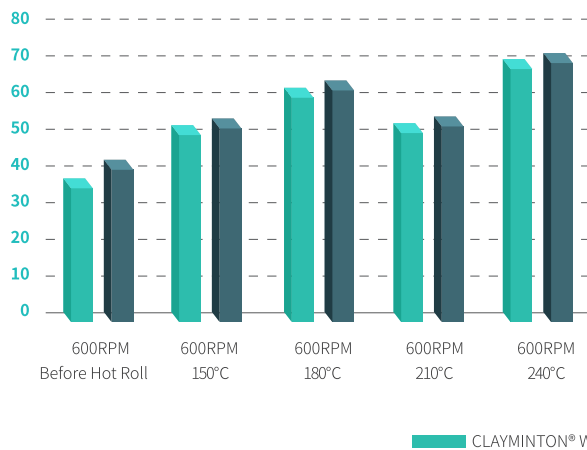


| Product | Description | Features and Advantages | Application | Use Level |
|-------------------------|--------------------------------------|--|-----------------------------------|------------------------|
| CLAYMINTON® WF-1 | Refined BENTONITE CLAY | Cost effective and specifically designed for water-based drilling fluids and muds, Efficient development of rheological properties and rapid yielding ability, Good dispersibility. Excellent suspension and control cutting settling property. Good resistance to filtration loss. Temperature stable to 150 °C. Not harmful to the environment. | Water-based drilling fluid or mud | 25-45KG/M ³ |
| CLAYMINTON® WF-2 | Refined BENTONITE CLAY | Cost effective unique Bentonite clay. Efficient development of rheological properties and rapid yielding ability, Good dispersibility, suspension and control cutting settling properties. Good static stability after hot rolling. Excellent resistance to filtration loss. Temperature stable to 150 °C. Not harmful to the environment. | Water-based drilling fluid or mud | 25-45KG/M ³ |
| CLAYMINTON® WF-5 | High Performance Suspension Additive | One high-performance HTHP bentonite-based clay, highly efficient development of rheological properties and rapid yielding ability. Excellent dispersibility and salt tolerance. Superior suspension properties. Significantly improve the wellbore purification ability and cuttings carrying ability. Excellent static stability after hot rolling. Excellent resistance to filtration loss. Temperature stable to 240 °C. Not harmful to the environment | Water-based drilling fluid or mud | 25-45KG/M ³ |
| CLAYMINTON® WF-6 | High Performance BENTONITE CLAY | A high-performance HTHP bentonite-based clay, highly efficient development of rheological properties and rapid yielding ability. Excellent dispersibility and salt tolerance. Superior suspension properties. Significantly improve the wellbore purification ability and cuttings carrying ability. Excellent static stability after hot rolling. Excellent resistance to filtration loss. Temperature stable to 240 °C. Not harmful to the environment | Water-based drilling fluid or mud | 25-45KG/M ³ |

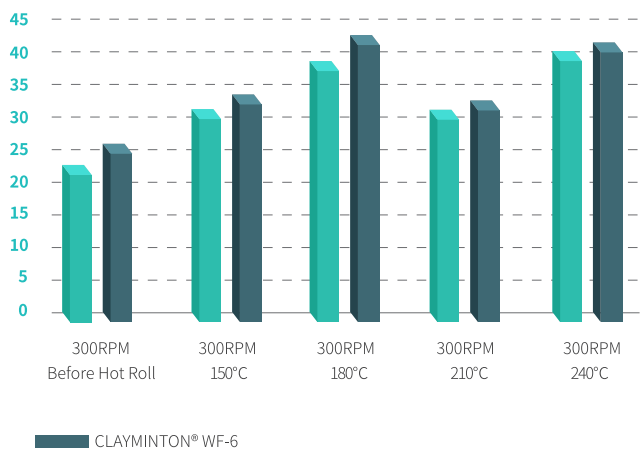


CLAYMINTON® WF-5 and **CLAYMINTON® WF-6** exhibit excellent rheology properties through rheometer in water-based drilling fluid formulations. They provide excellent resistance to filtration loss, and stable dynamic YP/PV ratio after high-temperature hot rolling tests.

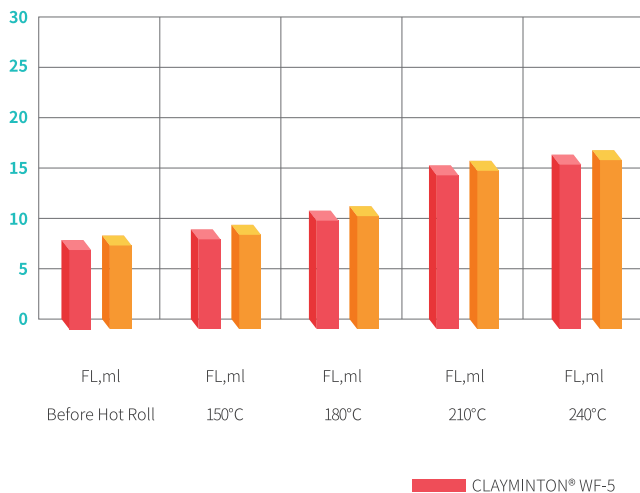
Viscosities, mPa.s @ 600rpm,
in Water Based Drilling Fluid



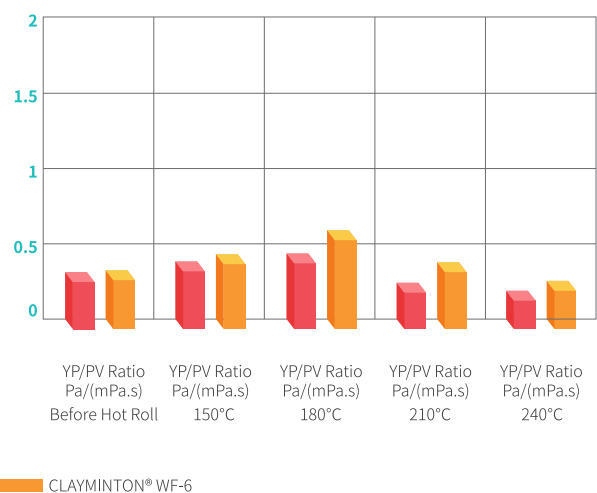
Viscosities, mPa.s @ 300rpm,
in Water Based Drilling Fluid



Filtration Loss, ml, in Water Based Drilling Fluid



YP/PV Ratio @ Pa/mPa.s, in Water Based Drilling Fluid

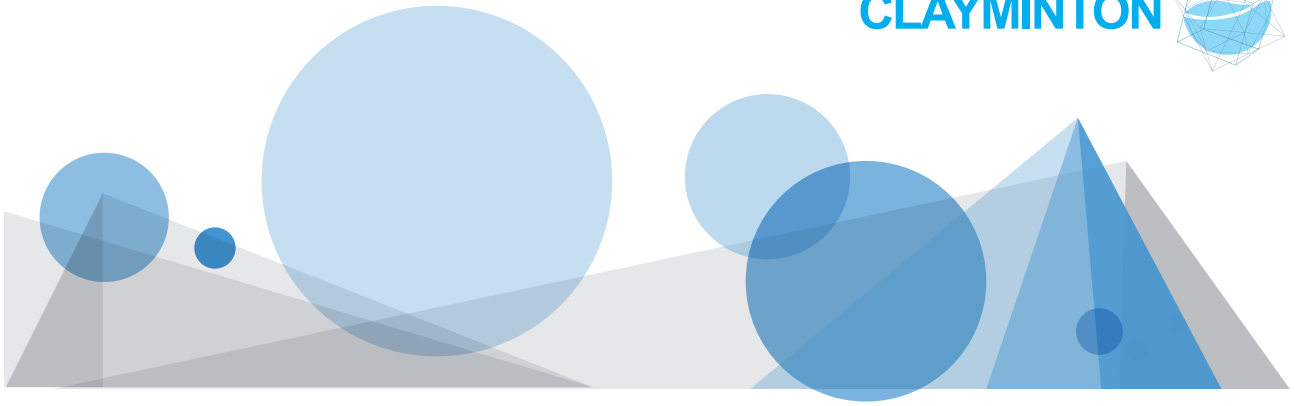




CLAYMINTON® OF Series for Oil Based Drilling Fluid & Mud

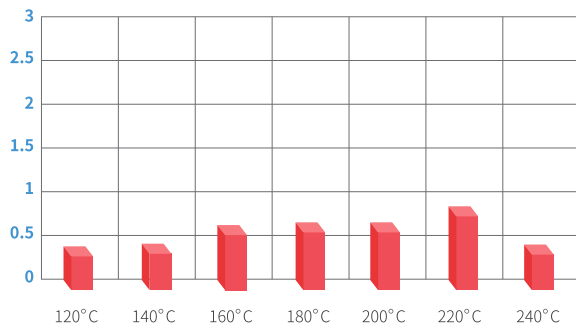


| Product | Description | Features and Advantages | Application | Use Level |
|-------------------------------|---------------------------------------|--|--|------------------------|
| CLAYMINTON® OF-213 | Cost Effective Organoclay | Cost effective, easily dispersible, self-activating. Good efficient development of rheological properties. Excellent suspension properties and controlling settling. Good resistance to the syneresis or separation of oil. Low filtration loss. Temperature stable to 150 °C. Not harmful to the environment | Diesel based and inverted emulsion drilling fluid, etc. | 25-45KG/M ³ |
| CLAYMINTON® OF-215 | Bentonite-based Organoclay | Unique cost-effective grade. Highly efficient development of rheological properties. Rapid yielding ability. Excellent suspension properties and controlling settling in diesel oil and mineral oil systems. Good resistance to the syneresis or separation after hot rolling. Excellent resistance to filtration loss. Enhances wellbore cleaning and sand carrying capability. Suitable for deep wells, temperature stable to 180° C. Not harmful to the environment | Diesel-based and inverted emulsion drilling fluid, etc. | 25-45KG/M ³ |
| CLAYMINTON® OF-217 | High Performance Bentonite Organoclay | Highly efficient development of rheological properties. Rapid yielding ability. Superior suspension properties and controlling settling. Excellent static stability after hot rolling. Excellent resistance to filtration loss. Good salt tolerance Temperature stable to 220 °C. Not harmful to the environment | Diesel-based drilling fluid and mineral Oil Based Drilling fluid and inverted emulsion drilling fluid etc. | 25-45KG/M ³ |
| CLAYMINTON® OF-218 | High Performance Organoclay | High Performance Suspension Additive Highly efficient development of rheological properties to replace B-38, Superior suspension properties and controlling settling. Excellent static stability after hot rolling. Excellent resistance to filtration loss and salt tolerance, Temperature stable to 220-240 °C. Suitable for Diesel, Mineral oil or Synthetic Oil based HTHP Drilling Fluids/Muds, Not harmful to the environment. | Diesel-based drilling fluid and mineral Oil Based Drilling fluid and inverted emulsion drilling fluid etc. | 25-45KG/M ³ |
| CLAYMINTON® OF-318 | High Performance Suspension Additive | Highly efficient development of rheological properties and rapid yielding ability. Superior suspension properties and controlling settling. Excellent static stability after hot rolling. Excellent resistance to filtration loss and salt tolerance. Temperature stable to 240 °C. Not harmful to the environment. | Diesel-based and mineral Oil Based Drilling fluid and inverted emulsion drilling fluid etc. | 25-45KG/M ³ |

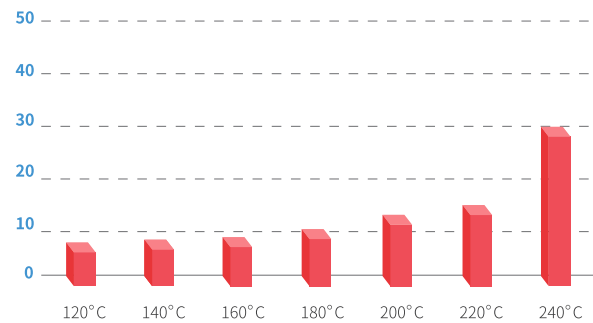


In diesel oil-based drilling fluid system, **CLAYMINTON® OF-217** performs outstanding performance in YP/PV, resistance to filtration loss through ladder studies. **CLAYMINTON® OF-217** shows superior static stability after hot rolling up to 240°C. Additionally, the apparent viscosities at 600rpm are kept stable level.

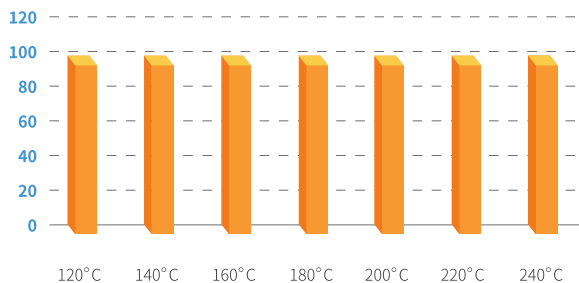
CLAYMINTON® OF-217 ,YP/PV B Comparison
After Hot Rolling in Diesel Oil Based Drilling Fluid



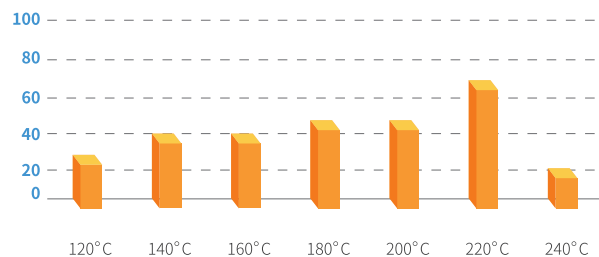
CLAYMINTON® OF-217 ,Filtration Loss Test,ml,
After Hot Rolling in Diesel Oil Based Drilling Fluid



Static Stability, Colloid Ratio%,
After Hot Rolling in Diesel Oil Based Drilling Fluid,
CLAYMINTON® OF-217



Viscosities at 600rpm@ mPa.s,
After Hot Rolling in Diesel Oil Based Drilling Fluid,
CLAYMINTON® OF-217



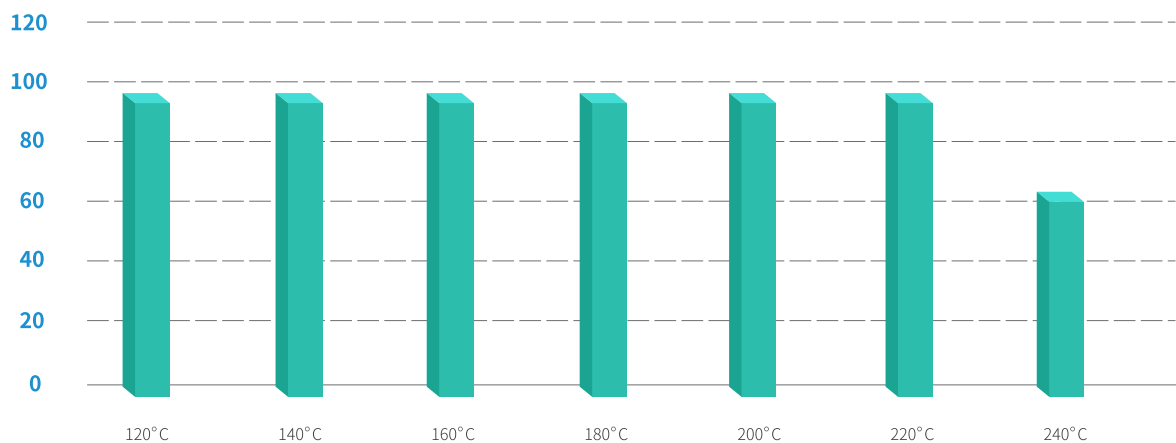


CLAYMINTON® OF Series for Oil Based Drilling Fluid & Mud

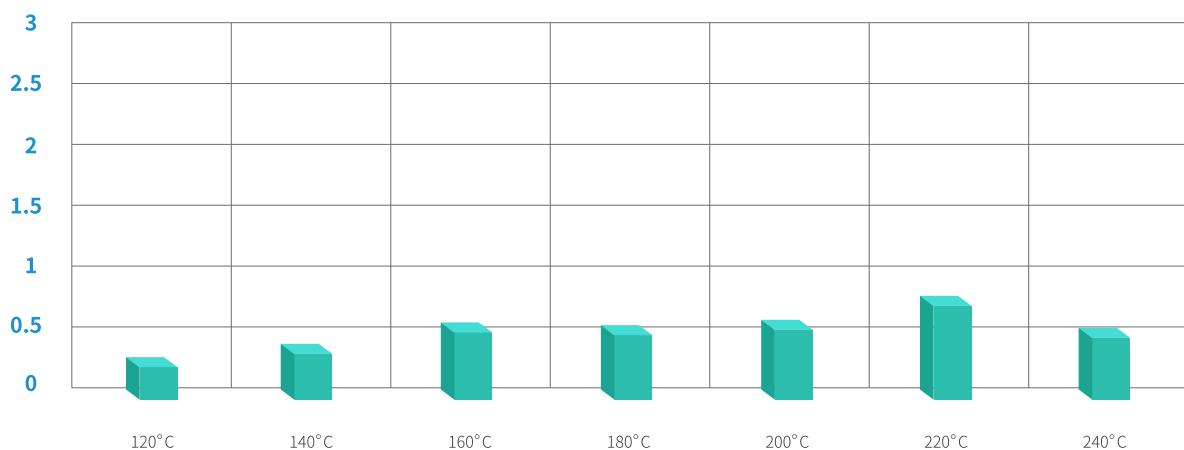


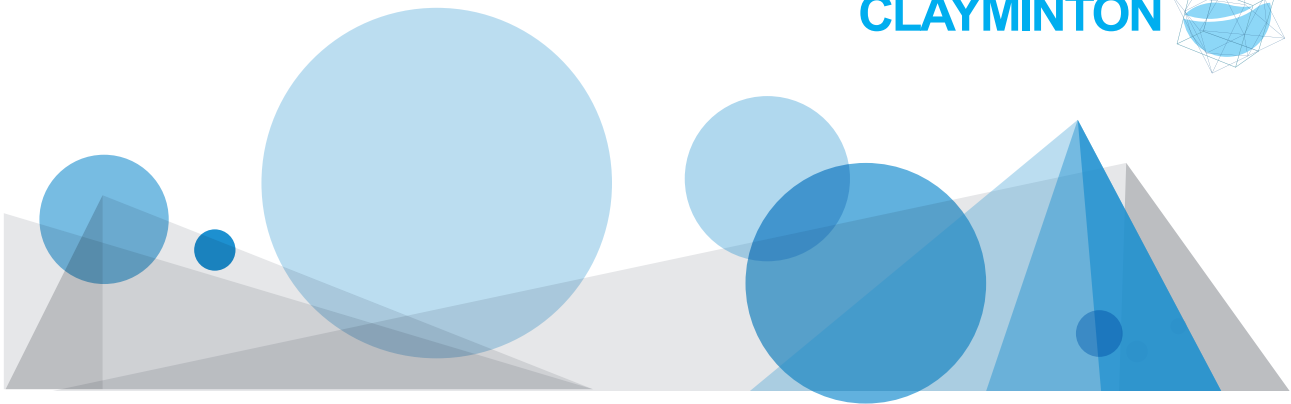
In the mineral oil-based drilling fluid system, **CLAYMINTON® OF-217** also contributes outstanding performance including stable YP/PV ratio, low filtration loss. **CLAYMINTON® OF-217** also performs superior static stability without separation issue after hot rolling process.

Static Stability, Colloid Ratio%, after Hot Rolling in 5# Mineral Oil Drilling Fluid, CLAYMINTON® OF 217

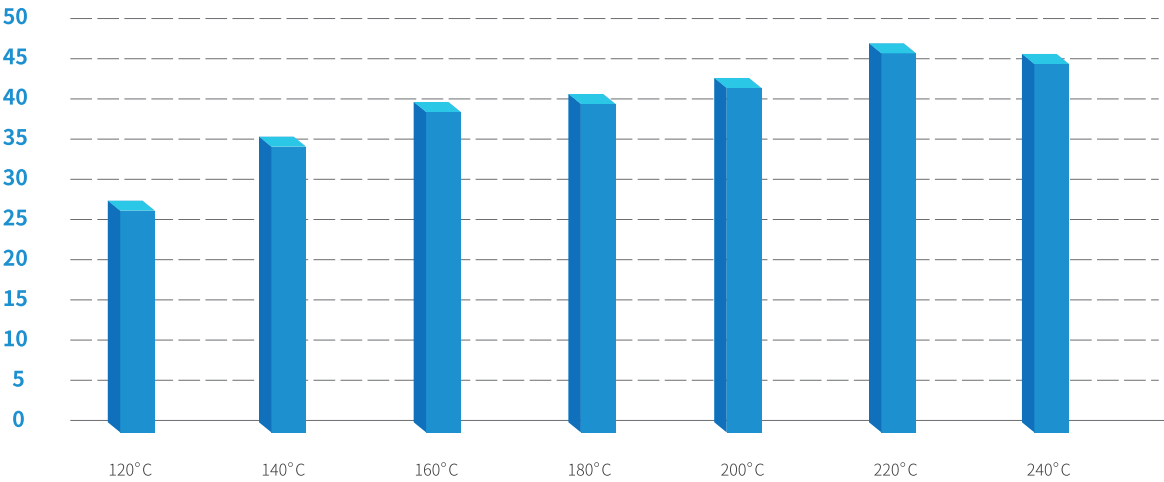


CLAYMINTON® OF-217, YP/PV Comparison after Hot Rolling in 5# Mineral Oil Based Drilling Fluid

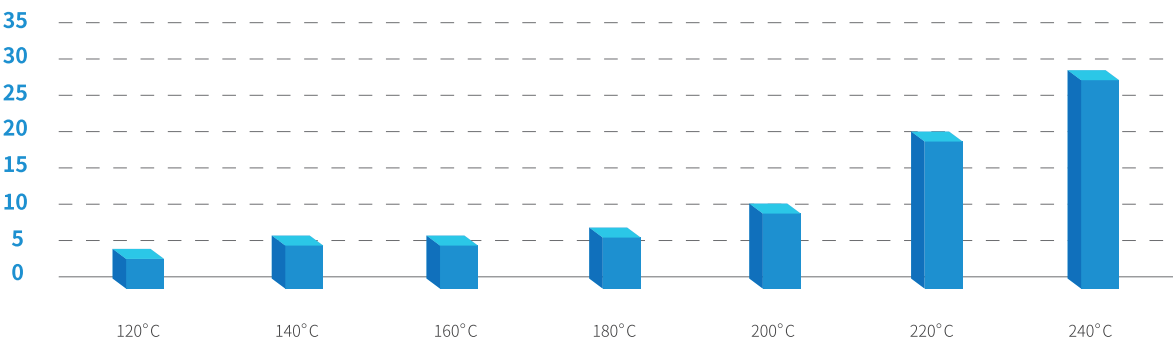




Viscosities at 600rpm @mPa.s, after Hot Rolling in 5# Mineral Oil Based Drilling Fluid



Filtration Loss, ml, in 5# Mineral Oil Based Drilling Fluid, CLAYMINTON® OF-217

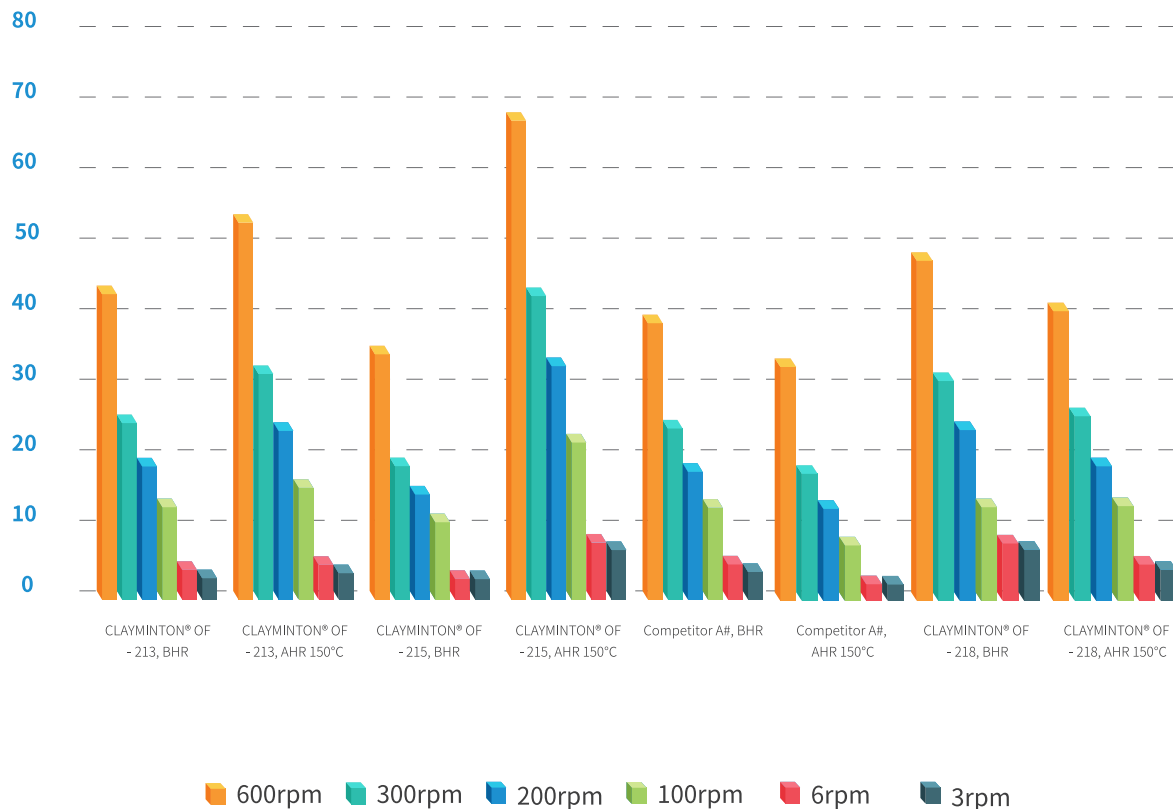


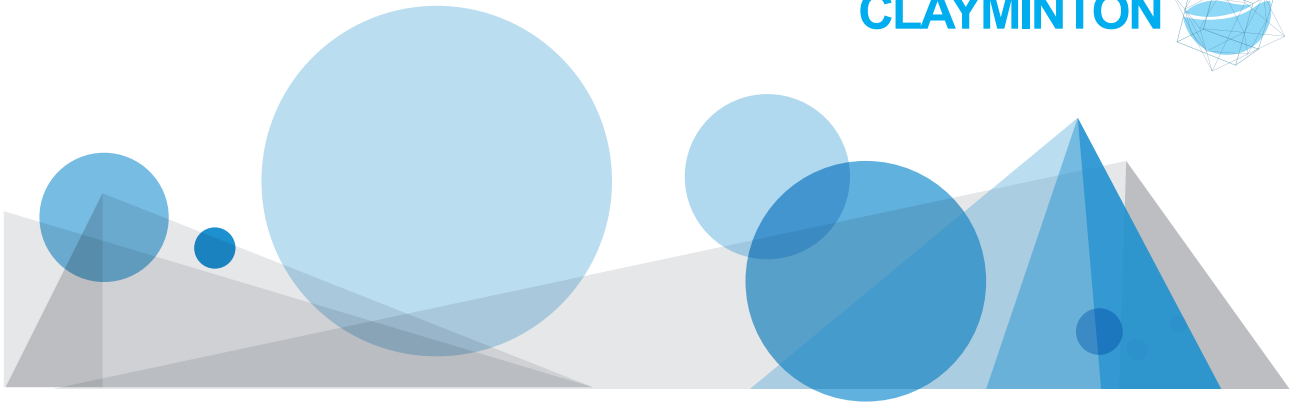


CLAYMINTON® OF Series for Oil Based Drilling Fluid & Mud

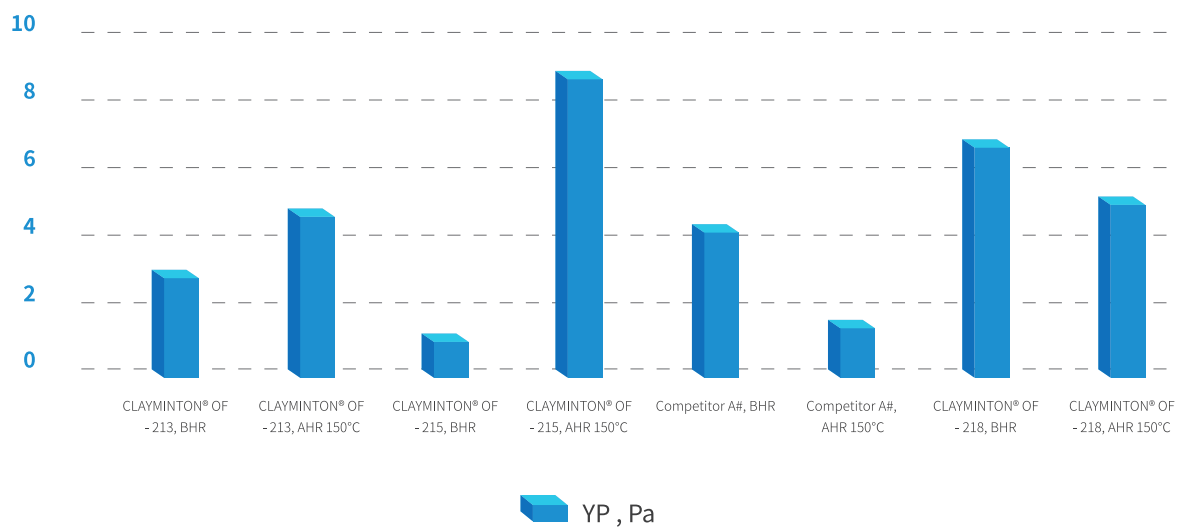
CLAYMINTON® OF-218 is our new high performance organoclay for oil-based drilling muds including diesel, mineral oil based drilling fluid or inverted emulsion drilling fluid. It performs outstanding performance low-shear viscosities, YP, gel strength and excellent resistance to filtration loss, superior static stability after hot rolling. It was designed to replace B38.

Rheology Properties Comparison, in Diesel Oil Based Drilling Muds, (O/W=80/20, MW=1.26g/ml)

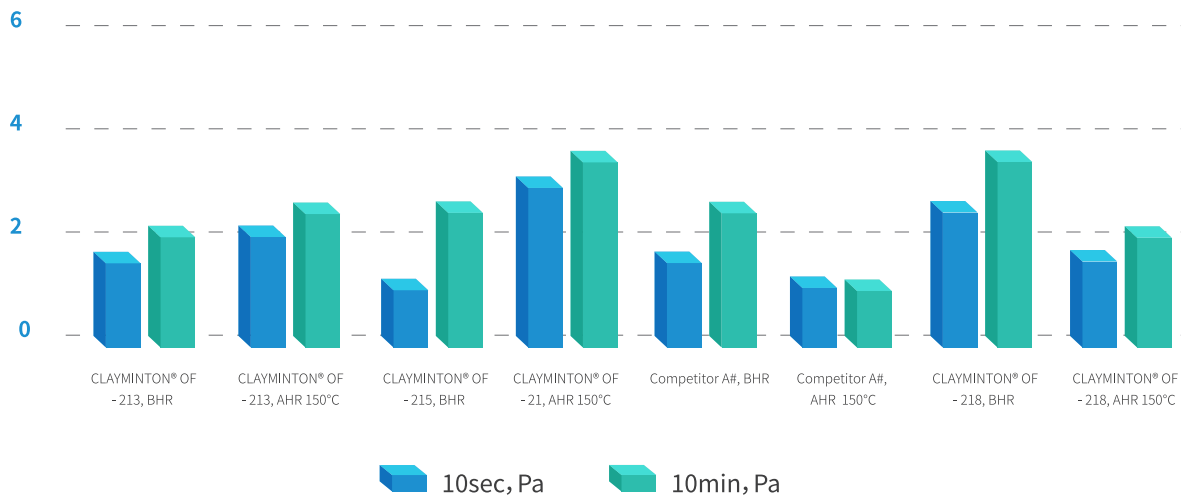




YP Comparison in Diesel Oil Based Drilling Fluids (O/W=80/20 MW=1.26g/ml)



Gel Strength Comparison, In Diesel Oil Based Drilling Fluid(O/W=80/20,MW=1.26g/ml)

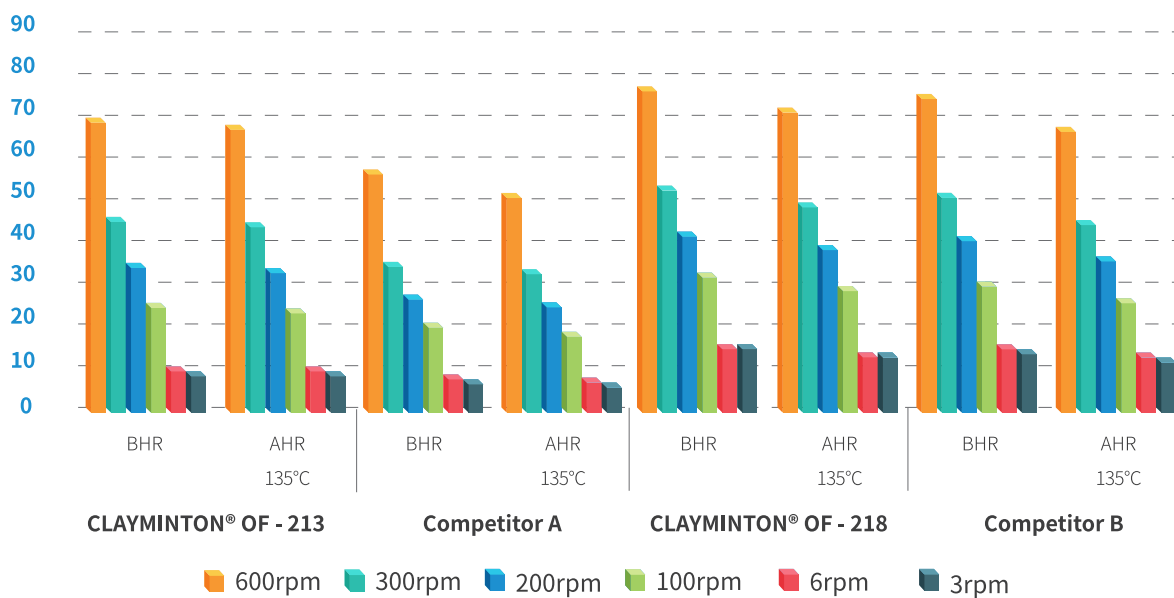




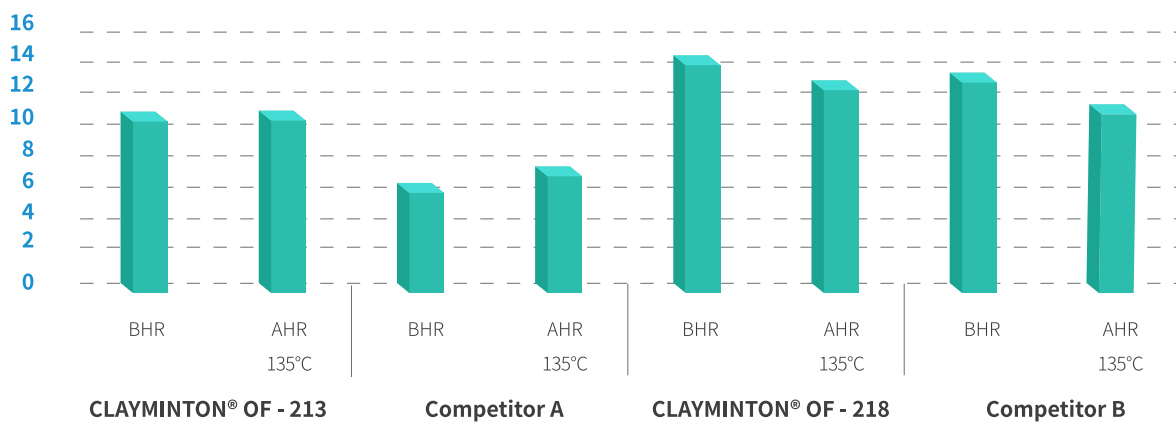
CLAYMINTON® OF Series for Oil Based Drilling Fluid & Mud

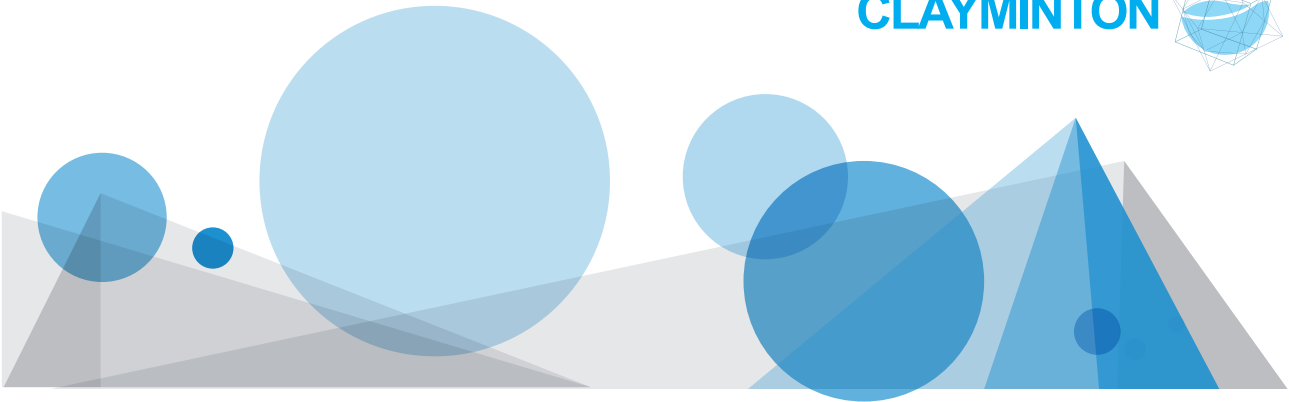


Rheology Properties Comparison in Diesel Oil Based Drilling Muds, (O/W=70:30, MW=1.43g/ml)



YP @Pa Comparison in Diesel Oil Drilling Muds (O/W=70:30)





GEL STRENGTH COMPARISON,IN DIESEL OIL DRILLING MUDS (O/W=70:30)





PRODUCTS BROCHURE Oil Field



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