

TECHNICAL DATA SHEETS

1. PRODUCT NAME : Polymer based agent for high density & high temperature;
resistant fluid loss and shale control, **ME-HDD**

COMPOSITION / INGREDIENTS AND APPLICATION

ME-HDD is a Hydroxyl copolymer powder, for high density & high temperature resistant WBM drilling fluids fluid loss and shale control .

Through zwitterionic exchange and hydroxyl action of absorption on the surface and end face of clay respectively, achieve strong inhibition on the formation, avoid the phenomenon of water and clay stratification, and connect the broken small pieces, so that the well wall shale does not easily peel off, the drilling cuttings do not easily hydrate or expand, reduce the filtration of calcium and magnesium bearing blocks, clean the wellbore and other functions. In the saturated salt water drilling fluid, the fluid loss reduction effect is remarkable, the temperature resistance ability is 180 °C, and the high temperature stability is good. Compared with other similar products, it does not increase viscosity, but is resistant for saturated brines.

By application: In saturated salt water adding amount of 1.5% of ME-HDD; at normal temperature, fluid loss is decreased from 99 ml to 7 ml; After aging at 150°C for 16h, the filtration loss is decreased from 109mL to less than 10mL.

Recommended dosage: add directly to mud for 1.5%.

Appearance : free flowing gray powder

Moisture % \leq 10.0 PH : 7.0-9.0



2. PRODUCT NAME : Fluid loss control agent & LCM for cementing slurry, **ME-HALAD**

COMPOSITION / INGREDIENTS AND APPLICATIONS

ME-HALAD is an anionic polymer fluid loss additive which is prepared by copolymerization of acrylamide and its derivatives. It is different from the conventional PVA products and acrylamide polymer products, due to the use of new polymer monomer and polymerization process for multi-component polymerization, the polymer fluid loss additive has better temperature resistance performance, still has good filtration control performance when the temperature reaches 130 °C, and has no adverse effect on the thickening time of cement slurry and the performance of cement paste, it has no adverse effect on the thickening time of cement slurry and the performance of cement paste in the water medium with high salinity, the filtration control performance of cement slurry is stable under low and ultra-low temperature environments.

Functional Use:

Improve cementing operation quality;

The adverse effects of water quality, temperature and formation in cementing operation are eliminated;

The better filtration reduction performance reduces the filtration rate and total filtration volume of cement slurry to the formation;

The filtrate has a high viscosity, which can reduce the filtration fingering phenomenon that may occur in the filtrate, thus reducing the overall infiltration depth of the filtrate;

It has low filtration impulse to prevent the pulsating impact of cement slurry on the solid and liquid infiltration produced in the previous operation, and reduce the depth of pollution zone.

Appearance: Brown flowing powder.

Recommended dosage: 1.0-3.0%

Comparable competitive products :Halliburton Halad-413

