

MICRONIZED PLUGGING ADDITIVE (MICROCOLMATANT)

DESCRIPTION

FLC 2000 is a micron-sized drilling fluid plugging (colmatant) additive that penetrates ultra-small distances into drilled rock formations to minimize the intrusion of wash fluid and hydrodynamic pressure into matrix pores and microfractures, thereby protecting unstable rock formations from the weakening effects of drilling fluid. The resulting sealing of pore and microfracture mouths limits the transmission of destabilizing pressure in the wellbore into the formation. This sealing mechanism minimizes formation damage and prevents fracture development, thereby stabilizing weak shales and other layered rocks.

ОСНОВНЫЕ ФИЗИЧЕСКИЕ СВОЙСТВА

| Name of indicators | Norm |
|---------------------------------|---|
| Appearance | at Lightly volatile powder of light brown color |
| True density, g/m ³ | 1,5 |
| pH of suspension in fresh water | 6-7 |
| Particle size, microns | 60 - 1600 |

ADVANTAGES

- Enables wells to be drilled at mud densities greater than the equivalent of the onset gradient of mud absorption or fracturing.
- Protects mechanically weak and interbedded shales from shattering, erosion or well wall collapse.
- Eliminates differential seizures in highly permeable formations.
- Minimizes drilling fluid losses caused by weathering.
- Optimizes well productivity by minimizing the penetration of drilling mud and its filtrate into depleted formations.
- High temperature stability (over 200 °C)

APPLICATION

FLC 2000 low penetration additive is designed for all types of drilling fluids, both water-based and hydrocarbon-based. FLC 2000 is effective and compatible with all common drilling fluid additives. The effective concentration of FLC 2000 in the drilling fluid will depend on the mud type, formation repression and formation characteristics. The applicable concentration range is 8.5-34 kg/m³, with the most typical concentration of 11-17 kg/m³. FLC 2000 can be added directly to the drilling fluid system through a hydration funnel. Pre-hydration of FLC 2000 in the drilling fluid premix will promote faster mixing

STORAGE

The FLC 2000 should be stored in a dry room. Avoid dust accumulation and inhalation. Wear the required PPE, and read the product safety data sheet before use.

PACKING

FLC 2000 is supplied in multilayer bags of 11.34 kg.