

BORE-TROL

SULFONATED ASPHALTIC SHALE CONTROL/BORE-HOLE STABILIZER

DESCRIPTION

BORE-TROL is a water soluble sulfonated asphaltic compound, designed to be the premium shale inhibition product on the market. The product is a brown to black powder, and provides a variety of functions in high temperature mud applications.

APPLICATION

BORE-TROL is added to water base drilling fluids to help control troublesome shales, reduce HP-HT water loss, reduce torque and drag, and improve overall mud condition and performance. The dispersed resinous phase of BORE-TROL coats the surface of the borehole with a layer of particulates which deform with heat and pressure, forming a continuous, tough, thin film. The particles also bridge the openings of microfractures, deforming to seal off these fractures to prevent invasion of mud or filtrate.

BORE-TROL also contributes inhibitive compounds to the drilling fluid, while acting to satisfy positively-charged (cationic) sites on exposed shale edges. Thus BORE-TROL functions in four ways to promote borehole stability: coating the wellbore, sealing microfractures, satisfying ionic charges on reactive shales, and chemically inhibiting swelling clays.

RECOMMENDED TREATMENT

Normally 2 to 6 ppb (5.7 to 17.1 kg/m³). Best results are achieved by treating the system with BORE-TROL before penetrating an interval of swelling or sloughing shale. Treating after a problem has already developed may require higher dosages.

BORE-TROL should be added daily after the initial concentration has been established in the system, as the product will "plate out" on the wellbore as the hole is deepened.

PACKAGING

BORE-TROL is packaged in 50 lb or 25 kg multi-layer export bags.

BORE-TROL is a Messina trademark

