

Description

KAR-TROL is a sulfonated asphalt designed as shale inhibitor and high temperature fluid loss control additive.

Typical Properties

Appearance : Gray / black free flowing powder
pH (1% solution) : 6 - 8
Bulk Density : 700 - 800 kg/m³

Features and Benefits

KAR-TROL forms a tough asphaltic film on the water sensitive shales and cuttings, which stops their hydration and dispersion.

KAR-TROL stabilizes the brittle shales physically by blocking micro fractures and pores in the brittle shales.

KAR-TROL reduces torque and drag as a result of the lubricating film formed on the well bore.

KAR-TROL provides excellent high temperature/high pressure fluid loss control and improves filter cake quality.

KAR-TROL assists to emulsify oil in water-base drilling fluids.

Application

In most water-base drilling fluids KAR-TROL is used to stabilize troublesome shales and reduce high temperature/ high pressure fluid loss as well as to reduce torque and drag.

Limitations

KAR-TROL has an affinity for oil and should not be added simultaneously with diesel. All oil should be added well before KAR-TROL additions.

KAR-TROL is effective to temperatures up to 380 °F.

Treatment

KAR-TROL should be added at 2 to 6 lb/bbl (5.7 - 17.1 kg/m³) prior to approaching troublesome shale section. A maintenance treatment of 0.2 to 0.3 lb/bbl (0.6 - 0.9 kg/m³) per day normally keeps an optimum concentration in the system.

KAR-TROL is added to the system uniformly through the mud hopper to insure complete mixing. Do not add KAR-TROL directly into a non-agitated pit as it will not disperse.

Packaging

KAR-TROL is supplied in 25 kg (55 lb) polyethylene lined multi-wall paper sacks.