

### **Description**

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

### **Typical Properties**

Appearance : Brown to black powder  
pH (1% solution) : 8 - 10  
Bulk Density : 900 - 1000 kg/m<sup>3</sup>

### **Features and Benefits**

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

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

KAR-TROL K provides additional shale hydration inhibition by contributing water soluble potassium ion to the drilling fluid.

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

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

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

### **Application**

In most water-base drilling fluids KAR-TROL K 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 K has an affinity for oil and should not be added simultaneously with diesel. All oil should be added well before KAR-TROL K additions.

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

### **Treatment**

KAR-TROL K should be added at 2 to 6 lb/bbl (5.7–17.1 kg/m<sup>3</sup>) prior to approaching troublesome shale section. A maintenance treatment of 0.2 to 0.3 lb/bbl (0.6–0.9 kg/m<sup>3</sup>) per day normally keeps an optimum concentration in the system.

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

### **Packaging**

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