

### **Description**

KAR-CFL HT is a chrome free lignosulfonate deflocculant used in a wide range of water-base drilling fluids. It meets and surpasses OCMA DFCP 8 specification.

### **Typical Properties**

Appearance : Brown fine powder  
pH (2% solution) : 2.8 - 3.8  
Specific Gravity : 1.01 - 1.10  
Sol. in water : > 98%

### **Features and Benefits**

KAR-CFL HT is a superior deflocculant compatible with all water-base drilling fluids.

KAR-CFL HT is a superior deflocculant to control rheological properties. It is commonly used to prevent salt and calcium flocculation of bentonite as well as to minimize the high temperature gelation in bentonite fluids. KAR-CFL HT also gives good secondary fluid loss control.

KAR-CFL HT functions over a wide range of pH levels but is most effective in the range of 9 to 11.

KAR-CFL HT is thermally stable at temperatures in excess of 300 °F.

KAR-CFL HT can tolerate common water base fluid contaminants and is compatible with common water-base fluid additives.

KAR-CFL HT is ideal for environmentally sensitive areas where use of chrome based additives not allowed.

### **Application**

KAR-CFL HT is used as deflocculant and secondary fluid loss reducer in bentonite fluids to control rheological and filtration properties upset due to salt or calcium contaminations. It is also utilized to minimizing high temperature gelation in bentonite systems.

### **Limitations**

KAR-CFL HT loses its effectiveness in environments of high salinity. Higher concentrations of KAR-CFL HT are required to perform its functions properly.

### **Treatment**

Recommended treatment for KAR-CFL HT is generally 0.5 - 8.0 lbs/bbl (1.4 - 23.0 kg/m<sup>3</sup>) depending upon solids content and degree of salinity. A pH range of at least 9 is required to ensure product solubility and effectiveness.

### **Packaging**

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