



**Thinner**

## **DESCO CF®**

**Description**

DESCO CF® is a reddish-brown, tannin-type mud thinner designed to reduce the viscosity and gels of most water-base muds.

**Uses**

DESCO CF® is used as a viscosity reducer in water-based drilling fluids. It is particularly applicable in an elevated pH or high chloride environment. A profound effect on Yield Point and Gel strengths can be expected with its use. In addition fluid loss is reduced with the addition of DESCO CF®.

DESCO CF® is somewhat less effective in the presence of water phase contaminants.

**Benefits**

DESCO CF® is effective in drilling muds over a wide pH range. It is readily soluble in water and may be used in conjunction with Lignites and Lignosulfonates to stabilize the flow of properties of water-base muds at elevated temperatures. Being a polyphenolic-type material, it also acts as a corrosion inhibitor by removing dissolved oxygen from the mud. DESCO CF® acts to thin freshwater, seawater, and brine water mud systems.

**Treatment**

DESCO CF® requires no caustic soda for activation of the product in the mud, but a pH of 9.0 to 11.0 is recommended. Depending on the mud type, DESCO CF® can be used in concentrations from 0.1 ppb for native weight muds, and up to 2.0 ppb for weighted dispersed muds.

**Function**

DESCO CF® contains an organic polymer of moderate length. It is chemically enhanced to provide more charge sites for better dispersion. The charge sites are attracted to mud solids that have opposite charges and satisfy those charges. This reduces the attraction of the particles for each other. Excess material in the electrolyte helps to repel solids from each other. Due to its small molecular size DESCO CF® may be adsorbed into the interlayer area of clays causing dispersion of larger clay particles.



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## DESCO CF (continued)

### Typical Physical Properties

Physical Appearance.....reddish-brown powder  
Specific Gravity.....1.5-1.7  
Hygroscopic.....no  
pH in water.....slightly alkaline

### Safe Handling Recommendations

Utilize normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, goggles, and apron is recommended for employee comfort and protection. See Material Safety Data Sheet (MSDS) for this product prior to use.

### Packaging

DESCO CF® is packaged in 25 lb multi-wall bags.