

### **Description**

KAR-THIN HT is a liquid anionic acrylic copolymer used as high temperature deflocculant in a wide range of water-base drilling fluids.

### **Typical Properties**

Appearance : Pale yellow viscous liquid  
pH (neat) : 6.5 - 7.5  
Specific Gravity : 1.25 - 1.35

### **Features and Benefits**

KAR-THIN HT is an effective deflocculant in freshwater, seawater, sodium chloride and potassium chloride systems.

KAR-THIN HT works well in low solids, non dispersed polymer-base fluids.

KAR-THIN HT minimizes high temperature gelation in excess of 400 °F (204 °C).

KAR-THIN HT is not affected by calcium contamination or by high levels of salt.

KAR-THIN HT is not pH dependent and works over a wide pH range.

KAR-THIN HT also contributes to filtration control.

KAR-THIN HT is not subject to bacterial degradation and environmentally acceptable.

### **Application**

KAR-THIN HT is used to control fluid rheology and to prevent high temperature gelation in a wide range of water-base drilling fluids.

### **Limitations**

Although KAR-THIN HT is resistant to calcium contamination, high calcium concentrations greater than 500 mg/l dictate increased treatment levels.

KAR-THIN HT becomes less effective in high solids fluids necessitating high treatment levels.

KAR-THIN HT is thermally stable up to 400 °F (204 °C).

### **Treatment**

Normal treatment levels range from 1 to 4 lb/bbl (2.9 to 11.4 kg/m<sup>3</sup>). The concentration will vary depending on the solids content and composition of drilling fluid system.

KAR-THIN HT is added slowly and uniformly through the mud hopper or directly into the suction pit.

### **Packaging**

KAR-THIN HT is supplied in 25 kg (55 lb) HDPE pails.