



*"Specializing In Well Stimulation Products"*

## **FR-450**

### **Friction Reducer Additive**

#### **GENERAL INFORMATION:**

**FR-450 is a synthetic high molecular weight polyacrylamide. This product is designed to enhance the water displacement in oil wells by reducing the friction pressure in excess of 70% at very high flow rates.**

#### **PRINCIPLE USES**

**FR-450 is useful in various industrial applications such as industrial water and waste water clarification, lubricant in drilling mud and thickening and as a friction reducer additive.**

**FR-450 functions in all brine types including high brines and high TDS brines in addition to high levels of chlorides.**

**FR-450 may also be used for acid fracturing and coil tubing applications.**

#### **PROPERTIES**

<b>Appearance:</b>	<b>Opaque Liquid</b>
<b>Specific Gravity:</b>	<b>1.04-1.06</b>
<b>Viscosity:</b>	<b>400-1200 cps</b>
<b>Ionic Charge:</b>	<b>Anionic</b>
<b>Pour Point:</b>	<b>-22°F</b>

#### **FEEDING AND DOSAGE**

**Recommended use levels are 0.5-3.0gal/1000gal in water. This product should not be used neat. Use positive displacement pumps (gear or progressive cavity).**

#### **STORAGE**

**FR-450 should be stored between 32-95°F and protected from freezing. If freezing occurs the product should be warmed to 32-95°F and mixed well before use.**

#### **PACKAGING**

**FR400 is available in 264 gallons totes, 330 gallon totes or 5 gallon pails.**

*See MSDS*