Typical Physical Properties

- **Appearance:** Clear/White
- **Physical State:** Liquid
- **Odor:** Slight Amide
- **Specific Gravity:** 1.03-1.06
- **Weight per Gallon:** 8.90
- **Solubility in Water:** Limited by Viscosity
- **pH:** 5.0-7.0

**Handling/Safety**

FR-1100 is available in 5 gallon pails, 55 gallon drums, 275 gallon IBC’s and in bulk. Safety Data Sheets are available outlining safe handling practices.

**Feeding/ Dosage**

FR-1100’s dosage will depend on the system operating conditions, application methods, and specific viscosity requirements. For guidance, the following dosages can be considered:

- **Friction Reduction:** 0.2-1.0 gallons per 10 bbls
- **Viscosification:** 1 -2 gallons per 10 bbls

It is very important that the product is added at a point of turbulence to ensure proper mixing.

**Product Information**

FR-1100 is a series of synthetic organic polymers of high molecular weight and varying ionicity degree supplied as rapidly hydrating emulsions.

FR-1100 was designed for use in water based fluid additives within the Oil and Gas Industry. It can be used in a variety of well types such as oil, gas, water, and injection wells.

FR-1100 will enhance the removal of drilled solids, and foam stabilization in air drilling projects.

FR-1100 is designed to provide exceptional friction reduction and pressure reducing characteristics for a range of well stimulation/work over and completion.

FR-1100 provides exceptional performance in freshwater, low brine, and extremely high brine fluid conditions.

FR-1100 has shown pressure reductions as high as 75% depending upon job conditions.

**Product Benefits:**

- Highly effective friction reducer and visocifier
- Excellent foam stabilizer for air drilling
- Highly effective shale and hole stabilizer
- Rapid hydration properties

**Differentiated with Added Value**

- Cold Weather Package (to – 40°F)
- High Temperature (for environments above 400°F)
- If stored correctly, it remains stable for 6 months.