

DESCRIPTION

SP-83 is a high molecular weight, medium charge, cationic polyacrylamide supplied as a low viscosity emulsion. By the nature of its' design, SP-03 mixes easily and yields rapidly..

APPLICATION

SP-83 is primarily used as a friction reducer in high rate acidising and acid fracturing work. It functions by discouraging turbulent flow regimes thereby reducing friction pressures and hydraulic horsepower requirements. SP-93 will function as effectively in brines, hydrochlorin and organic acids.

SP-83 can reduce friction by up to 80% in brines and acids when added at concentratuions of 0.1% to 3.0% (1.0 – 3.0 gals/Mgals acid)

SP-83 is stable at high temperatures and is not readily broken down by acid solutions. It is thermally stable to temperatures up to 350°F (177°C)

SP-83 can be mixed using conventional equipment and techniques. It hydrates rapidly in any acid concentration to form a smooth, slightly viscous fluid.

SP-83 is compatible with most commonly used acid additives, including demulsifiers, mutual solvents, scale inhibitors, corrosion inhibitors and iron chelating agents.

PHYSICAL PROPERTIES

Appearance:	Opaque Liquid
Ionic character:	Cationic
Specific Gravity:	1.02 – 1.06
Viscosity as supplied:	500 – 1500 cP
Viscosity* of 1% sol ⁿ @ 25°C:	1000 – 1400 cP
pH of 1% Sol ⁿ @ 25°C:	3.5 – 5.5
Pour point:	5°F (-15°C)
Flash Point	>200°F (93°

*Brookfield LVT, 30 rpm at 25°C in D.I. water.

PACKAGING

Usually supplied in 55 USG steel drums.

ADDITIONAL INFORMATION

SP-83 should be stored in a heated building at a temperature of 5 – 35°C. When stored under these conditions, the product has a shelf life of six months. If frozen, the product should be allowed to thaw completely and mixed well before use. Solutions should be stored in stainless steel, fibreglass, plastic or epoxy-lined tanks. Iron, copper or aluminium should be avoided for both storage and feed equipment.

HEALTH AND SAFETY INFORMATION

SP-83 exhibits a low order of toxicity. Precautions should be taken to avoid Inhalation, ingestion or contact with skin or eyes. For additional information, see the relevant MSDS.

Polymer spills are extremely slippery and therefore hazardous. An absorbent material should be applied to spills, then swept up and disposed of properly. The area should then be washed down with a bleach solution. **Do not add water to a spill.**