



Technical Data Sheet

POLY FORCE FL™

Product Description

POLY FORCE FL is a low molecular weight, anionic, water soluble, acrylate-based terpolymer that is supplied as a dry powder. It has excellent handling characteristics, mixes easily and dissolves quickly when added to water based fluid systems.

Applications:

POLY FORCE FL has been developed primarily as a fluid loss additive. It reacts with clay particles to form a thin, flexible filter cake along the well bore, thereby reducing fluid loss to the formation. It is thermally stable to temperatures in excess of 300° F.

POLY FORCE FL reduces gel strengths and yield point with little effect on plastic viscosity. It also improves the fluid's carrying capacity, helps reduce friction and contributes to the inhibition/ encapsulation of drilled solids. **POLY FORCE FL** can be used in a wide variety of drilling fluids such as fresh water bentonite muds and lime muds.

Treatment:

It is recommended that **POLY FORCE FL** be added to the system through a conventional mud hopper at a dosage rate of 0.25 - 2.0 ppb as supplied.

POLY FORCE FL can be used in fresh water, brackish water or seawater drilling fluids. Hardness levels should be controlled if possible. It is recommended that soluble Calcium & Magnesium levels be maintained at less than 500 ppm.

KEY BENEFITS

- Exhibits flexible thin filter cake that reduces water loss to formation.
- Improved ROP.
- Thermally stable up to 300° F

Key Properties

Appearance	Fine white powder
Ionic Character	Anionic
pH	5 - 7
Molecular weight	low
Shelf Life	1 year