

Description

StabilaFRAC™ FR Series is a grouping of over 20 polymeric friction and drag reducers designed for utilization in coiled tubing, drilling, acidizing, and hydraulic fracturing applications. The copolymer emulsion chemistry has a unique dispersion package that enhances its rate of miscibility in water or brine solutions, which provides fast differential pressure reduction.

StabilaFRAC™ FR Series were developed to enhance application efficacy by modifying each chemistry to specific freshwaters or mono-, di-, or multivalent brines.

Other manufacturers overlook the importance of fine-tuning polymers for their optimum molecular weight and charge density required for their application. In other words, Chemlogic will build a singular chemistry for one individual application rather than manufacturing tons of one 'broad-spectrum' product and promoting those huge batches as a 'cure-all' product. At Chemlogic, we're focused on specialty chemistries rather than commodities (one size fits all). By doing so, we can improve friction and drag reduction by 50 – 200% over the current chemistries applied in the oilfield market.

StabilaFRAC™ FR Series typically provides an aqueous system with fast friction and drag reduction by over 70+% shortly after applying the rapid hydrating compound. Additionally, the chemistry is compatible with other lubricants and additives that provide increased rate of penetration or optimum pumping rates.

Advantages

- Multiple chemistries for fine-tuning the maximum level of performance based on the water source, brine type, or brine density.
- Low use cost from utilizing our multiple product choices yielding low use rates and ease of blending; maximum concentration reduces logistics costs.
- Effectively passes all major oil company in-house and independent lab tests for product efficacy.
- Compatible with most fluid systems and lubrication or friction reduction chemistries, as well as brine and solids intrusion during drill outs.
- Thermally stable downhole (>200° F) in drilling & completion environments.

Health and Safety

Before handling, storage or use, please refer to the Safety Data Sheet (SDS) for details.

Chemlogic's 24 Hour Emergency Hotline: ChemTel: (800) 255-3924 (Outside US/Canada: +1 (813) 248-0585)

Chemlogic's Customer Service Line: (337) 334-8100 or (888) OIL-CHEM (645-2436), 24/7 – 365

Application

Coiled Tubing: Excellent results have been achieved in drill-out or well service applications by utilizing 2.5 – 5.0 gallons per 25 barrels of water-based drilling fluid (0.5 – 1.0 gpt).

Fracturing: Water-based: Utilize 1.0 – 3.0 gallons per 25 barrels of frac fluid (0.01 – 0.29% by volume).

Acidizing: Utilize 0.5 – 2.0 gallons per 25 barrels of 15% HCl acid mixtures (0.05 – 0.2% by volume) and 0.75 – 3.5 gallons per 25 barrels in 28% HCl or stronger, mixed acid packages (0.07 – 0.33%). The best friction reduction with the StabilaFRAC™ FR Series is usually attained "on the fly" with the chemical injected into the centrifugal feed pump. When StabilaFRAC™ FR is premixed, avoid prolonged storage of the brine or acid mixture at temperatures above 120° F. Under these conditions, degradation of the polymer will begin in 15% HCl at 8 – 12 hours and in 28% HCl at 4 – 6 hours. Below 120° F acid solutions retain friction properties for up to 24 hours. A consistent acid mixture in a tank is easily obtained if agitation of the acid solution is started before the addition of StabilaFRAC™ FR.

Typical Physical Properties

Physical Form @ 25°C	Liquid
Appearance	White, Hazy, Milky
Specific Gravity@ 25°C	1.05 – 1.09
Flash Point, PMCC, °F	> 200° F
Pour Point, °F	< -10° F
Fresh Water	Miscible
KCl 3% Brine	Miscible
9 lb. NaCl Brine	Miscible
13 lb. Clear Fluid Brine	Miscible
Methanol	Insoluble
Diesel	Insoluble

Handling and Storage

Recommended materials of construction include mild steel, stainless steel, fiberglass, plastic and glass or epoxy-lined vessels. The shelf life of the product is a minimum of 12 months when stored at temperatures between 5 - 30°C. For best results avoid freezing (freezing point < 0° C). If the product freezes, thaw completely and mix prior to use.

Shipping

Standard packaging includes:

- Bulk Tanker Trucks
- Non-returnable 275/330 gal. semi-bulk containers
- Poly 55 gal. non-returnable drums