

FG-11023

High-Performance Anionic Friction Reducer for Hydraulic Fracturing

Product Description

FG-11023 is a synthetic high molecular weight anionic polyacrylamide copolymer and is supplied in easy-to-handle emulsion form.

FG-11023 is a highly efficient friction reducer when used in water-based fracturing fluids and is capable of reducing pressure due to friction by amounts in excess of 70%.

Application

FG-11023 has been formulated for use in hydraulic fracturing operations for which the choice of fluid is less than ideal, namely high TDS brines containing significant levels of divalent ions (Ca²⁺, Mg²⁺, etc) in addition to high levels of chlorides, as may arise when using produced water.

FG-11023 is also recommended for use as a friction reducer in coiled tubing operations.

FG-11023 is added as supplied 'on the fly' by direct addition to the fracturing fluid. When the product is added to a region of high shear, rapid hydration of the polymer occurs, providing optimal performance.

Typical Dosage

0.25 to 2.0 gallons per 1000 gallons of frac fluid

Compatibility

FG-11023 is compatible with all anionic and nonionic additives that may be present in the frac fluid.

Typical Properties

Appearance	Opaque Liquid
Ionic Character	Anionic
Density	8.6 lb./gal.
Storage Temperature ¹	32-95° F
Low Temperature Fluidity ²	7 Days: 15° F 1 Day: -5° F

¹ Shelf Life is maximized inside a building at stable temperature

² Low Temperature Fluidity is measured using a small sample at constant T for specified period.

Packaging

IBC	2,800 lb./ 326 gal.
Bulk	45,000 lb./ 5,233 gal. max

Health and Safety

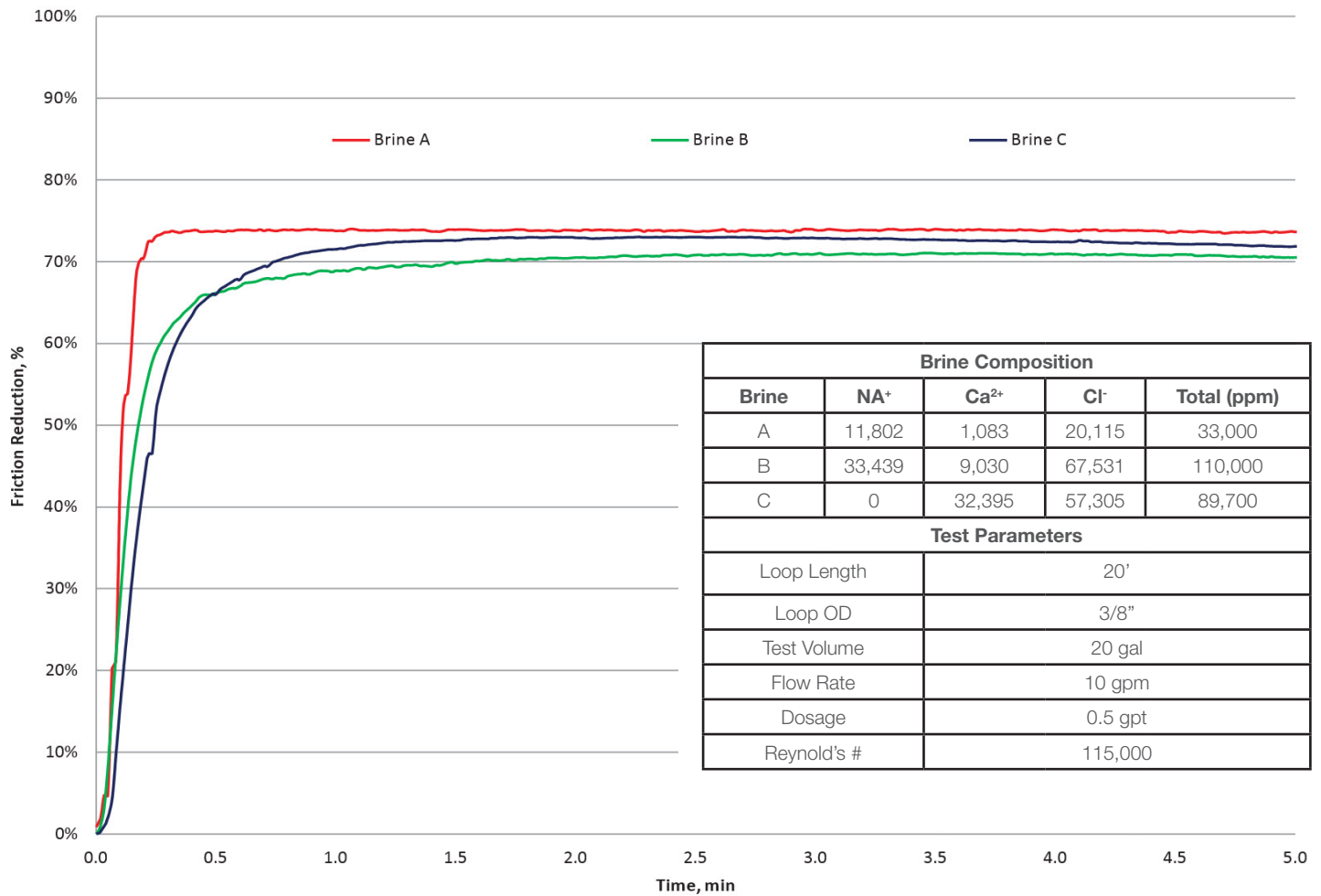
FG-11023 exhibits a low order of toxicity. However, precautions should be taken to avoid inhalation, ingestion or contact with skin or eyes. For additional information, see the relevant SDS.

SPILLS: Polymer spills are extremely slippery and therefore hazardous. They should be addressed immediately. An absorbent material should be applied to the spill then swept up and disposed of according to local, state or federal regulations. The area should then be washed down with a bleach solution.
DO NOT ADD WATER TO THE SPILL.

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Product Performance



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