TruSlick A

PRODUCT DATA SHEET

Product description

TruSlick A is a synthetic high molecular weight anionic polyacrylamide copolymer supplied in an easy-to-handle, liquid emulsion form. **TruSlick A** employs the latest advances in emulsion technology to deliver market leading friction reduction and sand placement performance in slickwater fracturing fluids. **TruSlick A** has better proppant placement than any other Anionic emulsion FR on the market. It has been run in the field in as heavy as 6# per gallon sand.

Application

TruSlick A is a high viscosity anionic synthetic polymer that is effective as a friction reducer in fresh water and various brines and in KCl, and has been widely used.

- As a friction reducer for fresh water & brine applications
- Product is used in fresh water to 150K TDS
- As a thickener for fresh water or brines in completions or workover operations
- Superior, long term suspension stability
- Rapid polymer hydration
- Suspension flows readily, even in severe winter conditions
- Compatible with anionic FR and nonionic additives

Typical properties

Appearance	Opaque liquid
Ionic character	Anionic
Density	8.8 lb./gal.
Storage temperature	32 - 95 °F
Pour point	-33 °C (-27.4 °F)

Typical dosage

Dosage requirements for **TruSlick A** range from 0.25 to 2.0 gallons per 1,000 gallons of fluid.

Compatibility

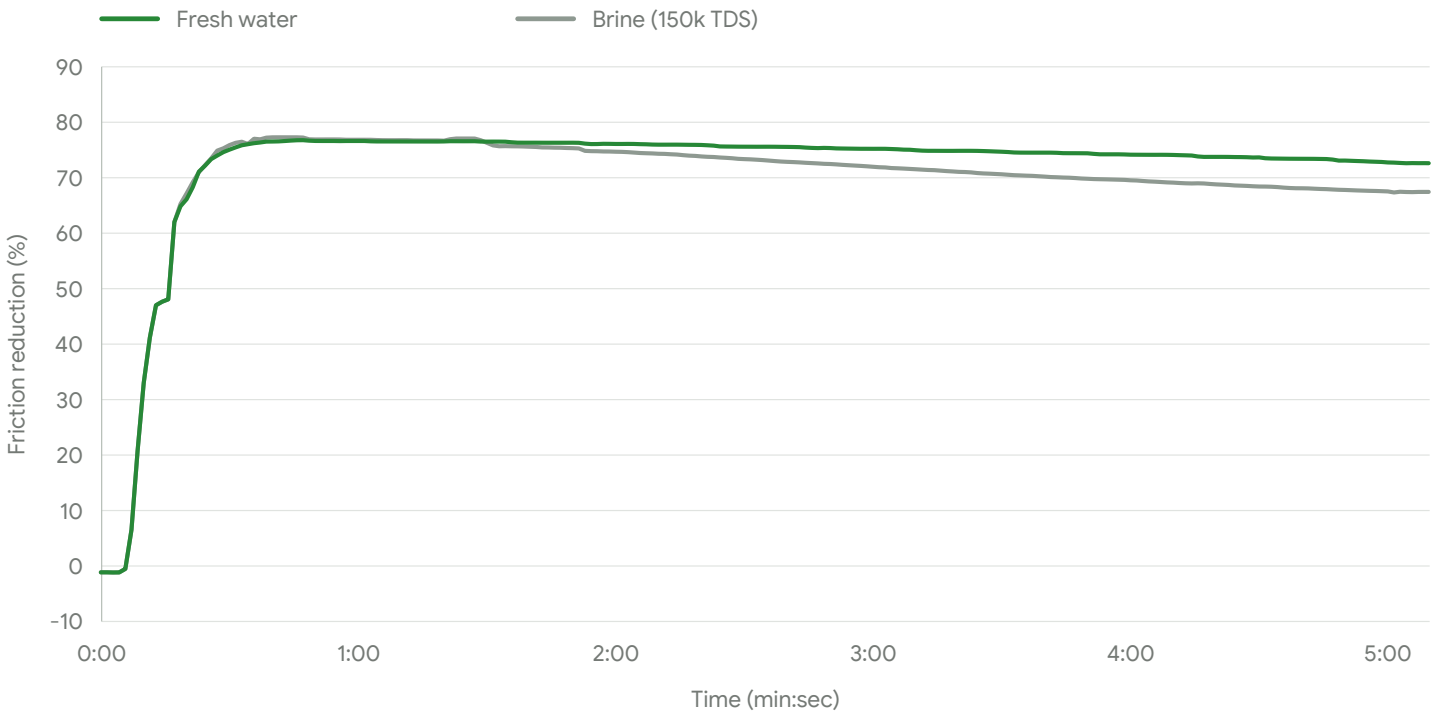
TruSlick A is compatible with all anionic and nonionic additives that may be present in the frac fluid.

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PERFORMANCE DATA

TruSlick A anionic brine FR at 0.5 gpt (150k TDS)



TruSlick C fluid break testing

TruSlick C	Water	Test time	Water bath temp.	Initial baseline viscosity	Post-batch viscosity	Post-bath w/ 0.5# raw APS
1 gpt	Tap	2 hrs	160 F	3.6 cP	1.1 cP	1.0 cP
2 gpt	Tap	2 hrs	160 F	7.6 cP	0.9 cP	0.9 cP
3 gpt	Tap	2 hrs	160 F	11.1 cP	0.9 cP	0.9 cP
4 gpt	Tap	2 hrs	160 F	14.2 cP	0.9 cP	0.9 cP

Ofite 900 R1B1 @ 300 rpm

Product performance

TRUSLICK C VS INDUSTRY LEADING EMULSION FR A

Sand bed growth rate: TruSlick C: 0.273 mm/s; FR A: 0.466 mm/s.

Sand settling rate: TruSlick C: 3.97 mm/s; FR A: 6.78 mm/s (TruSlick C is 60% of FR A).

Sand settling predictor: average reciprocal viscosity. 1 gpt TruSlick C: 0.14; 1 gpt FR A: 0.21.

Based on rheology, settling velocity in TruSlick C is predicted to be 67% of that in FR A.

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