

PROSLICK 972

■ Friction Reducer

> PRODUCT DESCRIPTION

ProSlick 972 is an anionic emulsion friction reducer designed for use in fresh water based fracturing fluids. ProSlick 972 reduces friction at low dosages while providing quick hydration and good viscosity building characteristics. ProSlick 972 is not compatible with and should not be used in acidizing operations.

> PACKAGING

ProSlick 972 is available in bulk transport. Please note: Space is left in the container for expansion due to temperature.

> RECOMMENDED APPLICATION

Prior to use, stir the container to ensure best results. Over time the product may settle out in the container. This is normal and does not affect product quality; mechanically agitate to re-disperse. Do not air-stir as moisture in air will hydrate the polymer, and a very viscous or semi-solid mass will result. ProFrac also recommends line flushing to prevent clogged lines due to other residues left in the lines.

ProSlick 972 may be batch mixed but is usually added on the fly. Normal use rates may vary by application from ¼ to 1 gallon per 1000 gallons of fluid.

As with any fluid additive, compatibility testing is recommended prior to use. Please note that ProSlick 972 is anionic and compatibility testing should be conducted, especially when cationic additives are used.

ProSlick 972 may be cleaned from equipment using d-Limonene OF, LF-15 or MFS-Green. Depending upon the level of clean-up needed, these clean-up materials may be effectively used for up to three separate rinses.

Typical Physical Properties

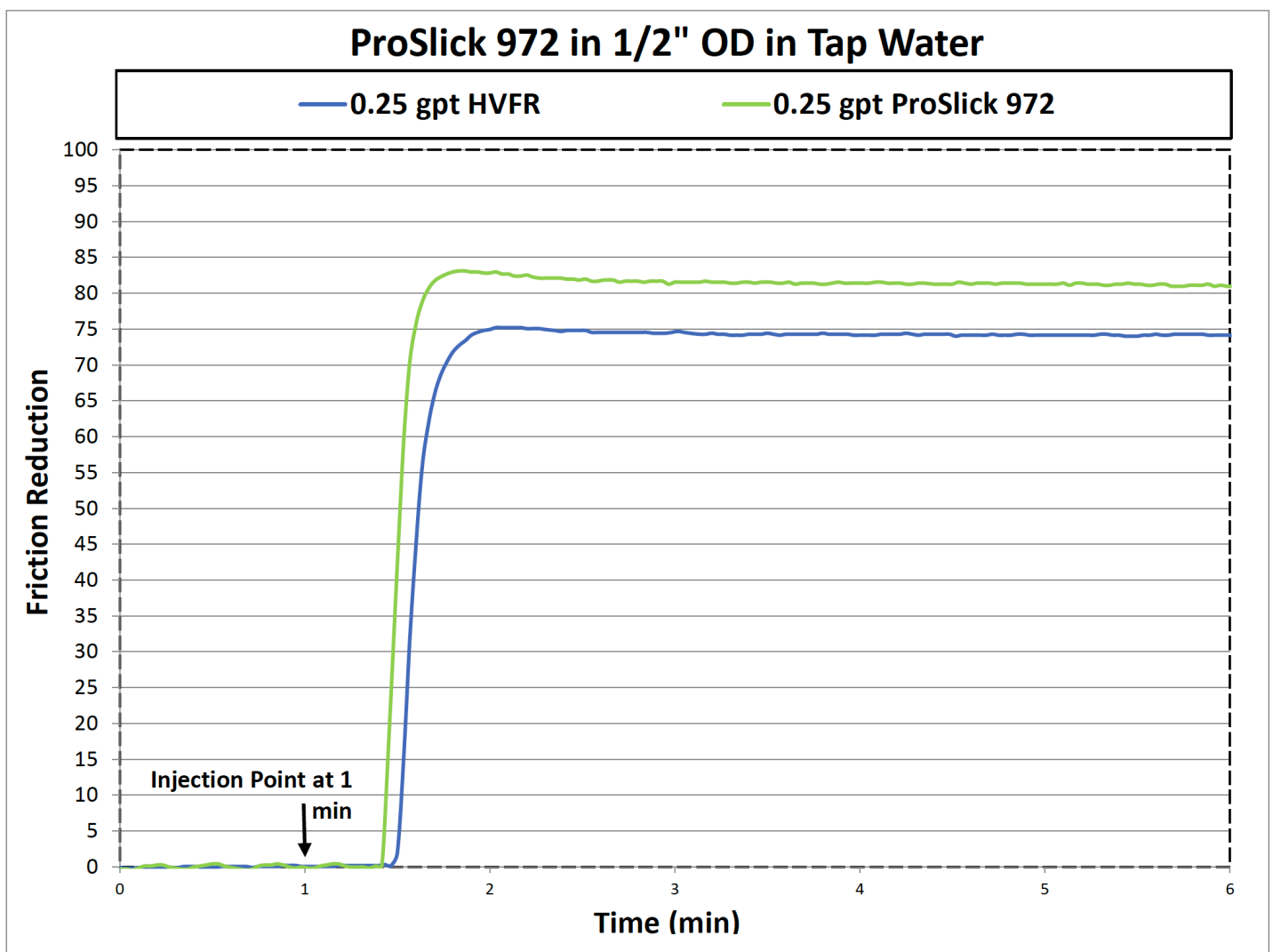
Flash Point (°F/°C)	>200 / >93
Freeze Point (°F/°C)	<41 / <5
Charge	Anionic
Specific Gravity	1.00 - 1.10
Solubility	Water

Disclaimer

While the information and data contained herein are presented in good faith and believed to be reliable, nothing herein shall be deemed to constitute a warranty, express or implied, that the information or data is reliable, accurate, or complete or that the products described herein are merchantable or fit for a particular purpose or that said information, data, or products can be used without infringing the intellectual property rights of third parties. Individuals who receive the products or the information or data relating to the products described herein, must use their own judgment in determining fitness for a particular purpose. Unless otherwise stated, the information or data contained herein relates to the products when not used in conjunction with any other products or materials. ProFrac and its affiliates ("ProFrac") disclaim all express and implied warranties of merchantability, fitness for a particular purpose, and non-infringement. ProFrac shall not be liable for any loss or damage that may occur from the use of the products described herein, including the use of the products in conjunction with other products or materials, or reliance on the data or information described herein.

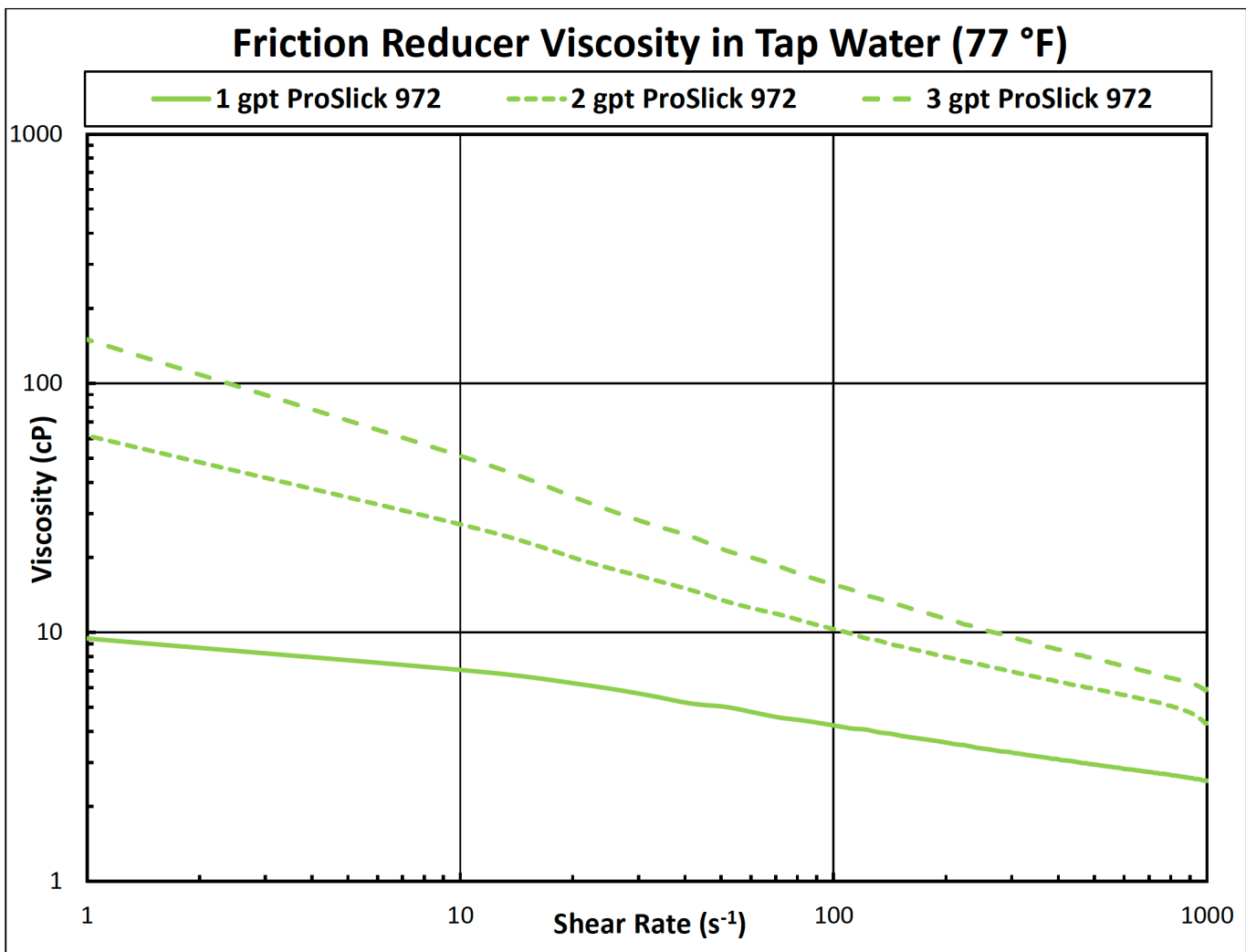
PROSLICK 972

■ Friction Reducer



PROSLICK 972

■ Friction Reducer



Power Law (n',K') Characteristics

Source Water		Tap Water (HTW)		
Product	Friction Reducer	ProSlick 972		
Temperature (°F)	Loading (gpt)	3	2	1
77	Slope	0.5531	0.6328	0.7873
	Intercept	0.1025	-0.2400	-0.9545
	RSQ	0.9967	0.9986	0.9994
	n'	0.5531	0.6328	0.7873
	cgs K' (dyn/cm ²)	1.2662	0.5755	0.1110
	English K' (lbs/ft ²)	0.0026	0.0012	0.0002