



Friction Reducer Grade Ref: FR 1014

FR 1014 Friction reducer offers solution to Slick water fracturing. FR 1014 is a emulsion of high efficiency molecular polymer dispersed in solvent carrier. The product is specifically designed to improved friction reduction efficiency with ultra-fast inversion in poor quality mix water. Even in high TDS waters the product is easy to mix and meter.

Typical Properties

Appearance	Opaque liquid
Chemistry.....	Polyacrylamide
Active Content.....	50% min
Carrier.....	Mineral Oils
Density (lb/gal).....	8.22
pH.....	8-9
Flash Point	>200°F
Specific Gravity.....	1.072

Packaging

275 Gal. IBC Totes
1 X 20 Feet container = 18 totes
4950 gallon in 1 container load

Shelf life

1 year

Benefits using FR 1014

Excellent high TDS water tolerance
Offering less pressure compared to conventional FR
Simpler in operations; not requiring any extra pumps.

Using FR 1014

FR 1014 is an anionic in nature made with high molecular weight polyacrylamide performing in high TDS water and it can be used in moderate TDS water aso. The typical addition range from 0.25 to 1.0 gpt, creating less chemical pump rate dependency in these higher TDS water.

Storage & Handling

FR 1014 to be stored in a dry, cool and well-ventilated area, away from incompatible materials. Available in 275 gal totes. Always wear appropriate protective equipment. Do not get in eyes or on skin or clothing.



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NOTE: Although the data supplied above is believed to be accurate, each user is advised to make an independent determination as to whether the described product is appropriate for a particular use or application, whether such use will comply with all applicable laws or regulations, and whether such use will infringe the intellectual property rights of third parties.