



Texan Minerals and Chemicals LLC

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TEXAN NI SURF 1 Enzyme Enhanced Non-Ionic Surfactant

Product Advantages & Benefits

- Water Wets the Formation to Lower Surface and Interfacial Tension
- Works to Increase the Mobilization of Hydrocarbons During Flow-back
- Promotes a Clean Interface
- Foaming Tendency Promotes Rapid Cleanup of Frac Fluids

General Description

TEXAN NI SURF 1 is a non-ionic biodegradable, water soluble, “Green” dispersant and surfactant containing a specialized group of enzymes designed to aid in flow- back of stimulation frac fluids.

Physical Properties of Product

Appearance/Color:	Clear colorless liquid
Specific Gravity:	0.97 to 1.00
Freeze Point:	32° F
Flash Point:	>200° F
Solubility:	Fresh water, brines and acids
pH:	6.8 to 7.5
Ionic Characteristics:	Non-ionic

Typical Usage & Application

TEXAN NI SURF 1 can be run throughout the entire frac treatment or used in a pre-pad formation conditioning stage. Typical loadings of TEXAN NI SURF 1 are 1.0 to 5.0 gal/1000 gallons of frac fluid, depending on field conditions. TEXAN NI SURF 1 is compatible with most additives utilized during the frac treatment. Laboratory pilot testing is always recommended.

Packaging & Handling of Product

TEXAN NI SURF 1 is available in 330-gal poly totes, 55-gal poly drums or 5,000 gal ISO containers. Care should be taken to avoid contact with skin and eyes. If contact occurs, flush exposed area with copious amounts of water, and if irritation continues consult a physician. Please refer to Safety Data Sheet for complete shipping and handling information. SDSs are available upon request and are forwarded with all TEXAN NI SURF 1 purchases.

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