



Texan Minerals and Chemicals LLC

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PRODUCT DATA SHEET

TEXAN NI SURF MD Non-Ionic Surfactant

DESCRIPTION

TEXAN NI SURF MD is a biodegradable water-soluble blend of non-ionic surfactants designed to aid in flow back of stimulation fluids.

PRODUCT ADVANTAGES

TEXAN NI SURF MD water wets the formation therefore reducing the surface tension and interfacial tension. **TEXAN NI SURF MD** is designed to increase the mobilization of hydrocarbons throughout the flowback process. **TEXAN NI SURF MD** promotes a clean formation face. **TEXAN NI SURF MD** exhibits a slight foaming tendency therefore promoting rapid cleanup of fracturing fluids.

PHYSICAL PROPERTIES

| | |
|------------------------|-------------------------------|
| Appearance/Color: | Clear liquid |
| Specific Gravity: | 1.025 to 1.035 |
| Freeze Point: | 24° F |
| Flash Point: | >212° F |
| Solubility: | Fresh water, brines and acids |
| pH: | 5.5 to 6.0 |
| Ionic Characteristics: | non-ionic |

TYPICAL USAGE

TEXAN NI SURF MD can be run throughout the entire frac treatment. Typical loadings are 1.0 to 5.0 gal/1000 gallons of frac fluid, depending on field conditions. **TEXAN NI SURF MD** is compatible with most additives utilized during the frac treatment. Laboratory pilot testing is always recommended.

PACKAGING

TEXAN NI SURF MD is available in 330-gal poly totes, 55-gal poly drums or 5,000 gal ISO containers.