

NSurf 100

NSurf 100 is a highly concentrate single phase NanoEmulsion product designed specifically for high molecular weight organic compounds, natural surfactants, Naphthenates complex polycarboxylic complex and emulsion blockage. **NSurf 100** can be incorporated with organic/inorganic acids, various types of thickening polymer in seawater and saturated brines. **NSurf 100** can be used as wellbore cleaner, spot pipe releaser, cuttings cleaner, rig wash and pipe pickling agent.

NSurf 100 can be used with and without carrier solvent. **NSurf 100** also can be used at higher concentration up to 100%wt active ingredient as supplied. For wellbore cleaning application, turbulent flow of this diluted cleaning solution in the wellbore is needed. The cleaning efficiency of **NSurf 100** typically increases with increasing the temperature. This unique NanoEmulsion cleaning product is less sensitive to pH, salts and ions.

- **Biodegradable and environmental friendly.**
- **BTX-Free, no recognized carcinogens.**
- **Formulated from 100% renewable natural raw materials.**
- **Effective at low dosage, as low as 2%.**
- **Neutral pH.**
- **Tolerate salt and any kind of ion and tolerate to various types of brines and electrolytes.**
- **Wide range of effective temperature of 20- 120+ °C.**
- **Wide range of effective pH 2-12.**
- **Compatible with various kinds of thickening polymers.**

Typical Properties

Properties	Specification
Form	Liquid
Color	Brown to dark brown, transparent
pH(neat)	8.0 – 11.0
pH(1% in water)	6.0 – 8.5
Specific Gravity (25%)	0.85 - 0.95
Flash point	>53 °C
Pour point	<1 °C
Viscosity (25°C)	≤35 cP

The product is packed in 55 gal steel drum, or in bulk (20 - 25MT) tankers