

Technical Data Sheet

WS-50

Non-ionic Surfactant

DESCRIPTION

WS-50 is non-ionic surfactant used primarily as a surface and interfacial tension reducer and a water wetting agent. WS-50 is used largely as an acid additive where it increases the water wetting ability of the acid. It also reduces surface and interfacial tensions allowing better penetration of the acid into the rock matrix and facilitates fluid recovery fines removal is greatly assisted by WS-50.

APPLICATION

The recommended concentration is 1 to 5 gallons/Mgallons with acid additives and 0.5 to 1 gallons/Mgallons with frac additive. The higher concentration is recommended matrix acidizing treatments, where penetration is important.

SPECIFICATIONS

Specific Gravity	0.984
Density	8.2
Ionic Charge	Nonionic
PH	7.0
Flash Point	86°F
Pour Point	-31°F

ADVANTAGES

- Reduces surface tension and interfacial tension.
- Improves water wettability of surface and fines.
- Provides foaming characteristics to returned fluids.
- Compatible with all other acid additives.