

# WNE-363L

Water-wetting, non-emulsifier for water and acid

## Applications

- Primarily a water-wetting agent that can be used in all fracturing and acidizing applications
- Can function as a non-emulsifier in some acidizing and fracturing applications
- Effective in fresh water, KCl water, and HCl acid-based fluids with typical loading of 1.0 to 3.0 gal/Mgal (1.0 to 3.0 L/m<sup>3</sup>)
- Used as a preflush in ZetaFlow<sup>®</sup> applications to prepare the silica particles for conglomeration

## Features and Benefits

- Can strip liquid hydrocarbon from rock matrix and leave the formation water wet.

## Description

Weatherford WNE-363L is a combination of water-wetting surfactants and an effective non-emulsifier for fresh water, potassium chloride (KCl) water, and hydrochloric (HCl) acids. The surfactants provide a quick breakout with clean aqueous phases in a wide variety of crude oils and condensates. WNE-363L is compatible with anionic additives, such as friction reducers, and with cationic additives used at low dosages, such as clay-control additives or corrosion inhibitors. Avoid excessive use with cationic species.

## Specifications

Appearance	Clear, yellow liquid
Odor	Slight alcohol
Specific gravity	1.011
Density	8.43 lb/gal (1.0102 g/cm <sup>3</sup> )
pH (5% 3:1 IPA: de-ionized water)	9.85
Flash point	>201°F (>93.9°C)
Solubility in water	Not available
Pour point	>14°F (>°C)

\* ZetaFlow is a registered trademark of Weatherford in the US, Canada, and the European Union.

