

# LNE-20 Nonionic Surfactant

11170-017

## General Information:

LNE-20 is a blend of nonionic ethoxylated surfactants, containing no alkyl phenols. LNE-20, unlike products based on those chemicals, is not classified as a marine pollutant.

## Physical Properties:

Density ..... 8.1 lbs/gal.  
Ionic Charge ..... Nonionic  
Solubility in Water ..... Soluble  
Solubility in Diesel ..... Insoluble  
Color ..... Clear, colorless liquid  
Odor ..... Mild Alcohol  
Flash Point ..... 78°F

## Chemical Description:

LNE-20 contains ethoxylated alcohol surfactants in an aqueous alcohol base. It is usable in fresh water or in brines, as well as in acid at temperatures below about 150 deg F. Loadings of 0.1% give surface tensions well below 30 dynes/cm in fresh water or 2% KC1.

## Recommended Uses:

LNE-20 is recommended for use in a variety of oilfield applications where low surface tension and good surfactancy is required. A few examples would include:

1. Increasing water injection rate in disposal or injection wells by stripping residual oil from the near-well bore rock.
2. Increase injectivity and deliverability in gas storage wells by lowering surface tension.
3. Lower surface tension and help prevent emulsions in stimulation treatments or in load water.
4. Water-wet formations to improve cement bonding.

## Treating Applications:

Typical loadings of LNE-20 are from 1 to 5 gallons per thousand gallons of fluid.

## Packaging:

LNE-20 is obtainable in 55 gallon poly drums, 330 gallon poly totes and bulk storage.

## DOT Information:

**FLAMMABLE LIQUID, N.O.S., 3, UN 1993, PG II**



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