

LWRS-20

Water Recovery Surfactant

11170-022



General Information:

LWRS-20 is a blend of conventional anionic and fluorocarbon surfactants, which work synergistically to give very low surface tensions and negligible absorption to rock in well treating fluids. These features promote load recovery, particularly in gas well applications. LWRS-20 shows very low tendency to form emulsions at recommended loadings.

Physical Properties:

Density 7.93 lbs/gal.
Ionic Charge:..... Anionic
Solubility in water: Soluble
Solubility in diesel:..... Insoluble
Appearance:..... Pale, yellow liquid
Odor: Mild alcohol
Flash point:..... 56°F

Chemical Description:

LWRS-20 contains fluorosurfactants, and conventional anionic surfactants, in an aqueous alcohol base.

Recommended Uses:

LWRS-20 is recommended for use particularly in fracturing treatments on gas zones, especially in tighter formations that have a history of being slow to unload. The product is effective in either sandstone or carbonates.

Treating Applications:

The typical loading of LWRS-20 in fracturing fluids is 0.5 to 1 gallon per thousand gallons throughout the job. LWRS-20 is not known to interfere with crosslinkers, breakers, or other fracturing additives at this loading; it is, however, incompatible with polymeric clay stabilizers. If run in acid treatment loadings of up to 2 gallons/1000 may be required for optimal surface tension reduction. Use of nonionic nonemulsifiers with LWRS-20, though perfectly acceptable, is often not required due to the NE properties of the product.

Packaging:

LWRS-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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