



P-NSL1

CEMENTING SERVICE BULLETIN

01/10/14

P-NSL1 (PETROCHEM – NON-IONIC SURFACTANT LIQUID)

TECHNICAL DATA

P-NSL1 is a Non-ionic surfactant that is used as a flowback aid in stimulation treatments. Flowback aids are typically added to stimulation treatments to reduce capillary pressure and water blocks.

P-NSL1 is useful in moderate and low permeability reservoirs. Flowback of the fracturing fluid is improved when capillary pressure of the fluid in the fracture region is lowered, thus reducing the drawdown to produce hydrocarbon.

RECOMMENDED APPLICATION

P-NSL1 is generally added to stimulation fluids at concentrations of 2 gpt (gallons per thousand). Compatibility testing is strongly recommended prior to field use.

FEATURES AND BENEFITS

- Easy on-site addition.
- Non-fluorocarbon based.
- Effective at low concentrations.
- Long shelf life.

SHIPPING, STORAGE AND HANDLING

Refer to SDS shipping, handling, and storage information.

P-NSL1 is can be packaged in bulk, poly totes, and drums.

MATERIAL COMPATIBILITY

Compatible with HDPE for transported containers (totes and drums).



PROPERTIES

- SURFACE TENSION (2 GPT IN DI WATER) 33.5
- SURFACE TENSION (2 GPT IN 2% KCL) 27.2
- IFT (2 GPT IN 2% KCL VS. N-HEPTANE) 1.16
- CONTACT ANGLE 89

SAFETY AND ENVIRONMENTAL

Refer to SDS for safety and environmental information. Observe normal handling and safety precautions for industrial chemicals.