

VERSAPRO P/S

VERSAPRO* P/S surfactant is a primary emulsifier and secondary wetting agent used in the VERSAPRO reservoir drill-in invert system.

It is designed to provide effective emulsification and wetting for maximum reservoir protection in the VERSAPRO drill-in fluid. VERSAPRO P/S surfactant results in reduced formation damage and improved well productivity.

Typical Physical Properties

Physical appearance	Dark red liquid
Odor	Slight
Specific gravity	0.91 – 0.95
Flash point	>167°F (>75°C)
Ignition temperature	518°F (270°C)

Applications

VERSAPRO P/S surfactant is designed to give primary emulsification and oil wetting to insure that the reservoir formation has maximum protection from damage during the drill-in and completion phase. VERSAPRO P/S surfactant has application in the VERSAPRO oil-base systems to limit formation damage while providing inhibition, lubricity, and formation compatibility.

Recommended concentration for newly blended formulations containing VERSAPRO P/S surfactant is 6 to 10 lb/bbl (17.1 to 28.5 kg/m³). Daily treatments of 0.5 to 2 lb/bbl (1.4 to 5.7 kg/m³) are suggested to maintain strong electrical stability and tight fluid-loss.

VERSAPRO P/S surfactant should be added through the hopper where good agitation is available.

Advantages

- Excellent reservoir drill-in emulsifier additive
- Increases electrical stability
- Provides formation damage protection
- Assists in hole stability

Limitations

- May require supplemental emulsifiers/fluid-loss agents for use at higher temperatures (>300°F or 150°C)

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

VERSAPRO P/S emulsifier is packaged in 5-gal (18.9-L) cans and 55-gal (208-L) drums.

Store in a cool, dry location away from sources of heat or ignition.



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