

SurePak Gravel-Pack Carrier Fluids

Transfer gravel at a low friction pressure to efficiently gravel pack openhole and cased-hole wells with or without shunt-tube screen technology

Applications

- Openhole and cased-hole gravel-pack completions
- Horizontal and vertical wells
- Circulating or squeeze packs
- Multizone gravel-pack completions

Features and Benefits

- Low friction pressure maintains completion operations below formation fracture pressure.
- Strict quality control measures support fluid performance.
- Low or zero residue viscosifiers prevent formation damage.
- Fast viscosity build and simple mixing make for smooth operations.
- Kill-weight completion fluid enhances well-control safety.

Fluid Description

The Weatherford SurePak family features gravel-pack carrier fluids that facilitate mixing at the wellsite using either continuous- or batch-mixing equipment. The SurePak fluid family includes viscoelastic surfactant (VES), clarified xantham gum, and hydroxyethylcellulose (HEC) fluid viscosifiers. These engineered fluids have excellent surface gravel carrying capacity and shear thinning rheology for low friction pressure in drillpipe and shunt tubes. They also offer excellent downhole gravel carrying capacity and packing efficiency in perforations and the screen-wellbore annulus.

Specifications

Measurement

Fluid density range	8.42 to 13.0 lb/gal (1.01 to 1.56 SG)
Compatible brine types	KCl, NaCl, CaCl ₂ , NaBr, CaBr ₂ , and blends thereof
Filtration capability	10 µm (typical value)
Gravel carrying capacity	1 to 15 lb/gal (120 to 1,800 kg/m ³)
Fluid pH range	pH 6 to 8 (typical value)
Mixing capability	Continuous- or batch-mix operations

