



# ThinFrac™ Plus FRW-41C

REDUCE FRICTION PRESSURE DURING FRACTURING OPERATIONS

## APPLICATIONS

- Friction reducer for fracturing operations using fresh water to high-TDS water
- Slickwater fluid at low product loading (~0.5 to 1.0 gpt)
- Batch mixed or added on the fly

## FEATURES & BENEFITS

- Reduces friction pressure by up to 70 to 80% during fracturing operations
- Rapid hydration in fresh to produced water up to 275,000 ppm TDS
- Improves performance in produced waters compared to traditional friction reducers
- Reduces fresh water use with higher-produced water cuts
- Minimizes hydraulic horsepower requirements due to lower surface treating pressures

## OVERVIEW

ThinFrac Plus FRW-41C is a cationic friction reducer that effectively reduces pumping pressure in up to 275,000 ppm total dissolved solids (TDS) waters. It has extremely-rapid hydration and will reduce friction pressure by up to 70 to 80% during fracturing operations by reducing turbulent flows. This friction reducer can be applied in a variety of well types including oil, gas, water and injection wells.

## TYPICAL PROPERTIES

APPEARANCE	Milky, off-white liquid
FLASH POINT	> 200°F (93°C), estimated
FREEZING POINT	11°F (-27°C)
SPECIFIC GRAVITY	1.07 (at 59°F / 15°C)
VISCOSITY	< 1,150 cPs (at 75°F / 24°C)
CHARGE	Cationic