



ThinFrac™ E FRW-98

REDUCES FRICTION IN MULTISTAGE FRACTURING OPERATIONS

APPLICATIONS

- Water-based and light-brine fracturing treatments
- Large, multistage fracturing operations
- Fracturing operations in oil, gas, water and injection wells
- On-the-fly hydraulic fracturing operations

FEATURES & BENEFITS

- Reduces friction in multistage fracturing operations
- Improves proppant transport
- Enhances operational efficiency
- Low-dosage concentrations reduce water management and disposal costs
- Minimizes hydraulic horsepower requirements

OVERVIEW

ThinFrac E FRW-98 fresh-water friction reducer is an anionic liquid polymer that provides superior friction reduction in large, multi-stage fracturing operations. Designed for use in water-based fracturing fluids, this technology generates viscosity, improving proppant transport. ThinFrac FRW-98 has low dosage requirements, improving recovery of injected fluids and reducing operational costs.

TYPICAL PROPERTIES

APPEARANCE	Off-white liquid
PHYSICAL STATE	Emulsion
SOLUBILITY IN WATER	Emulsifiable
pH (100%)	8.00
FREEZE POINT	< -4°F (-20°C)
SPECIFIC GRAVITY AT 77°F (25°C)	1.03 to 1.07
DENSITY AT 77°F (25°C)	8.60 to 9.00
CHARGE	Anionic