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www.monsoonoilfield.com*

Mon-Frac HV

In a typical fracturing operation, several thousand cubic meters of water is injected in a short period of time which, if not addressed, can lead to considerable friction losses effectively limiting the operation. Friction reducers are added to water to decrease frictional losses by as much as 70%.

Mon-Frac HV Is an anionic synthetic polymer-based friction reducer in a slurry state. The polymer has been specifically treated to achieve total hydration in a short period of time. The slurry state allows the polymer to keep its structural integrity intact during the transportation and pumping and thereby addresses the vulnerability of emulsion-based polymers which are inherently susceptible to freeze-thaw cycles.

Advantages

- Lower susceptibility to freeze-thaw cycles than emulsions
- Unlike powdered product does not require special hydration units
- No polymer dust concerns in the field
- Does not impose any practical limit to polymer chain development
- Hydrates rapidly in fresh water and brine water
- High tolerance to changes in pH and temperature
- Resists thermally induced hydrolysis
- Maintains solubility at higher temperatures
- Excellent as a thickener for slick water fracturing
- Provides excellent friction reduction
- More easily disperses compared to powders
- Thickens brines of varying composition
- Can be mixed on the fly and does not cause lumping problems compared to powder friction reducers
- Improves carrying capacity of fluids
- It is effective at low concentrations (as low as 0.1 L/m³) in fresh water

Technical Data	Typical Properties
Appearance	Liquid
Color	Off White
Specific Gravity	1.06 ± 0.03
Solubility in water	Partial
Dosage recommendation	0.5 - 1 l/m ³



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Mon-Frac HV has been used in a variety of oilfield applications. Due to its unique friction reducing capabilities, it has been used in coiled tubing work over operations. Mon-Frac HV provides flexibility in treatment design and can be readily cross linked with chromium, aluminum and zirconium ions to produce gels for profile modification or water shutoff.

Mon-Frac HV is useful as a thickener or friction reducer in the following brines or mixtures

- Fresh water
- Potassium Chloride
- Sodium Chloride
- Calcium Chloride
- Seawater
- Alkali Metal Formates
- Calcium Chloride
- Sodium Carbonate

Packaging: 1000 L totes

