

AG-19L acid gellant

Improve acid stimulation in high temperature wells

Applications

- Acid fracturing operations in high temperature carbonate formations
- Matrix acid stimulation in high temperature, high-permeability carbonate formations
- Scale remediation operations
- Friction reduction in high-rate pressure pumping operations

Features and benefits

- High molecular weight
 - Increases viscosity of HCl and organic acid fluid systems
 - Reduces pipe friction at low concentrations, minimizing surface horsepower requirements
- High-stability formulation
 - Improves gel stability and performance at high temperatures
 - Extends shelf life
- Suitable for continuous-mix operations
 - Simplifies and hastens operations
 - Improves stimulation economics
- Minimizes risks
- Compatible with common mix waters and stimulation additives, including non-emulsifiers, mutual solvents, and surfactants.
 - Facilitates logistics and testing requirements and reduces associated costs
- Liquid state – Enables fast, accurate metering and mixing
- Low pour point – Extends the application range to extreme cold weather.

One of the challenges of high-temperature acid stimulation is ensuring the stability of the fluid system at expected bottomhole temperatures. The Baker Hughes AG-17L acid gellant creates stable viscosity in hydrochloric (HCl) acid systems at low and high temperatures and in organic acid blends at even more extreme bottomhole temperatures. Gelling the stimulation fluid retards the acid's reaction rate on the formation and controls leakoff. The fluid breaks naturally or with breakers to reduce viscosity so it can flow back and allow production. Fluids gelled with this product retain some viscosity, which enables the fluid to entrain fines generated during the stimulation process and further improve the etched conductivity. The chemistry of this product also makes it useful as a friction reducer in high-rate pressure pumping applications such as coiled tubing cleanouts.

Materials compatibility

Compatibility testing is recommended prior to the job.

Safety and handling

Before handling, storage, or use,

Typical properties	
Appearance	Milky White Liquid
Specific gravity range at 68°F (20°C)	1.08 to 1.08
Pour Point	-23°F (-30°C)
Solubility	Dispensable