

DESCRIPTION

Acid Viscosifier HT is a synthetic polymer that viscosifies acids used to stimulate hydrocarbon bearing formations. One method of stimulating acid soluble formations is by pumping acids at greater than the formation stresses, creating a fracture. The acid etches the fracture face; creating a void in the formation when the fracture closes. A problem in fracture acidizing is loss of fluid to the formation through created wormholes. The loss of fluid to the formation decreases the effective fracture length. Increasing the viscosity of the acidizing fluid reduces fluid loss by bridging the developed wormholes. The result is a longer fracture with higher conductivity.

Acid Viscosifier HT is supplied as a water-in-oil emulsion. Acid Viscosifier HT contains a surfactant that aids inverting the emulsion when added to the acid, allowing viscosity development.

ADVANTAGES

- Liquid product that can be easily added to the acid at controlled rates using current liquid additive systems.
- Polymer readily disperses and dissolves in acids, normally without other additives.
- High resulting viscosity of dissolved polymer allows lower concentrations of polymer to be used.
- Viscosity properties are not affected by spent acid.
- Can be crosslinked with organic crosslinkers.
- Polymer is more temperature stable than Acid Viscosifier LT.

APPLICATION

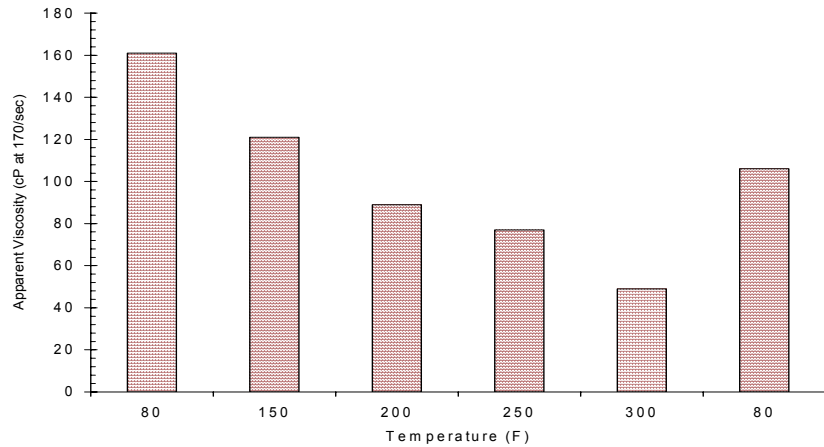
- Acid Viscosifier HT Can be used in a variety of acid strengths including 28% HCl.
- Acid Viscosifier HT does not need to be prehydrated. The product can be added “on the fly”.
- Acid Viscosifier HT addition at a concentration of 40 to 50 gal./Mgal. acid should be sufficient in most applications
- Acid Viscosifier HT can be crosslinked with organic crosslinkers, such as, Fritz CLB-60 or CLB-1123, to further increase fluid viscosity.

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PROPERTIES

- Milky White to Straw Yellow Emulsion
- Organic Odor
- Activity – 35%
- Apparent Viscosity – ≤ 400 cP
- Specific Gravity – 1.02
- Viscosity versus temperature in 15% HCl see FIGURE 1
- Packaged 50 gallons in 55 gallon open top drums
- Drum should be stirred before use

FIGURE 1



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