

DESCRIPTION

SGA-04 is a synthetic polymer used to thicken Hydrochloric Acid for stimulating wells with BHSTs of 100-300°F.

SGA-04 produces thermally stable viscosities in hydrochloric acid of up to 28% concentration. The increased viscosity retards the reaction rate of the acid with carbonate formations.

SGA-04 hydrates rapidly in any acid concentration and conventional field mixing equipment and techniques can be used. Additives containing aldehydes should be avoided as these may react with the polymer to form residual viscosities which could pose clean-up problems during flowback.

APPLICATION

SGA-04 is generally used at 15-30gals/1000 USG when treating wells with a BHST of 150°F or less where residual acid viscosities are sufficient to suspend insoluble solids while minimising the clean-up process.

In deeper hotter wells where acid fluid loss and reaction rate are more important the acid viscosity should be maximised within economic limits.

PHYSICAL PROPERTIES

| | |
|----------------------------------|-------------------------------|
| Appearance: | Clear to light yellow liquid. |
| Odour: | Mild |
| Boiling Point/Boiling Range(°C): | 217-238°C |
| Flash Point (°C)/Method Used: | > 93°C / PM Closed Cup |
| Specific Gravity: | 1.03 approx. |
| Solubility: | water dispersible. |

PACKAGING

Supplied in 200L drums or 1000L IBCs

ADDITIONAL INFORMATION

To double the time for the acid to spend to 90% of its original concentration requires 24-40gals/1000USG of **SGA-04**.

The table below shows the results of static spending tests in 15% Hydrochloric Acid.

| Temperature (°F) | SGA-04 (lbs/1000USG) |
|-------------------------|-----------------------------|
| 100 | 19 |
| 150 | 27 |
| 200 | 35 |
| 250 | 42 |