SGA-III™ Acid Gelling Agent

SGA-III™ gelling agent is a dispersion of crosslinkable polymer that can be used to gel hydrochloric and organic acid.

Applications
For controlling leakoff during fracture acidizing treatments, SGA-III gelling agent can be used with the Zonal Coverage™ acid system. The Zonal Coverage acid system is designed so that crosslinking does not occur until the acid is nearly spent. The crosslinked acid blocks wormholes, helping prevent any further loss of acid from the fracture. Over time, as the acid spends more completely, the Zonal Coverage acid system crosslink breaks allowing return of the spent acid from the well.

SGA-III gelling agent and the Zonal Coverage acid system can also be applied as a diverting acid system during matrix acidizing treatments.

When used as an acid gelling agent in noncrosslinked acid systems, SGA-III agent helps to delay the acid reaction with the formation. This benefit is provided by viscosifying the acid and thus creating a wider fracture width and by retarding the acid reaction with the formation.

SGA-III agent may also be used as a friction reducer in both acid and most non-acid aqueous fluids.

Features
SGA-III gelling agent has an upper temperature limit of 300°F (149°C) when used as an acid gelling agent.

When used in the Zonal Coverage acid system, SGA-III gelling agent should be allowed to hydrate in the acid for 2 to 4 hr to allow the polymer to fully crosslink.

Compatibility
SGA-III gelling agent is a cationic polymer. Use of anionic chemical additives should be avoided when using SGA-III gelling agent.

SGA-III gelling agent can be crosslinked by SCA-130™ sulfide cracking inhibitor and CCA-H₂S™ additive. SGA-III gelling agent should not be used in acid systems containing either of these additives.

Benefits
SGA-III™ gelling agent can provide the following benefits:
• Acid gelling agent for mid-range temperature applications up to 300°F (149°C)
• Can be used at the gelling agent for the Zonal Coverage acid system
• Can be used as a friction reducer for both acid and non-acid fluids
• Improved drum stability over that seen with SGA-II gelling agent

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### SGA-III Gelling Agent - Product Specifications

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<thead>
<tr>
<th>SAP No.</th>
<th>Density</th>
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<tbody>
<tr>
<td></td>
<td>9.08 lb/gal</td>
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<tr>
<td>Hal-Tank</td>
<td>Flash Point</td>
</tr>
<tr>
<td></td>
<td>&gt;200°F (&gt;93°C)</td>
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<tr>
<td>Form</td>
<td>Specific Gravity</td>
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<td>1.09</td>
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