Stimulation

Scalechek® LP-55 Scale Inhibitor

Scalechek® LP-55 liquid scale inhibitor is a water-soluble, organic compound that acts as a crystal poison by altering the structure of scale particles and preventing scale growth after nucleation.

Applications

Scalechek LP-55 inhibitor can be used to prevent calcium carbonate, calcium sulfate, and barium sulfate scale deposits. However, this product does not remove existing scale buildup and should be used after descaling treatments have been performed.

Scalechek LP-55 inhibitor is effective at bottomhole circulating temperatures (BHCTs) up to 400°F (204.4°C). The required inhibitor volume is based on the total water production expected over a given recovery time.

Features

Solubility

Scalechek LP-55 inhibitor is completely soluble in water containing up to 25% salt. It is also soluble and stable in all strengths of acid. It is not soluble in pure calcium chloride solutions, such as weighted, clear completion fluids.

Adsorption

Like most organic compounds, Scalechek LP-55 inhibitor exhibits varying degrees of adsorption on different solids. It is weakly adsorbed onto limestone or dolomite, but it is strongly adsorbed onto sandstone. Consequently, initial inhibitor placement may not be as successful as subsequent placements. However, certain surfactants will alter the adsorption properties of Scalechek LP-55 inhibitor.

Benefits

Scalechek LP-55 inhibitor can provide the following benefits:

- It can be placed by the chemical placement technique (CPT), lubrication, or the Calchek™ process.
- Scalechek LP-55 inhibitor is a stable product that will not exhibit hazard polymerization.
- The Environmental Protection Agency (EPA) does not classify Scalechek LP-55 inhibitor as a hazardous waste.

## Scalechek® LP-55 Inhibitor—Product Specifications

<table>
<thead>
<tr>
<th>Part No. (55-gal drum)</th>
<th>Form</th>
<th>Boiling Point</th>
<th>Pour Point</th>
<th>Flash Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>100001593</td>
<td>Clear, red liquid</td>
<td>212°F (100°C)</td>
<td>-14.8°F (-26°C)</td>
<td>210°F (98°C)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.180</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Bulk Density</td>
<td>9.83 lb/gal</td>
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