Silbreak* 504

Description
Silbreak 504 silicone demulsifier is an excellent candidate to consider for use in demulsifying heavy crudes under extreme conditions such as those experienced in heavy crudes stabilized by fine solids or sand or those recovered through EOR, such as polymer flooding.

Key Features and Benefits

- powerful demulsification effect, particularly when combined with polyols
- effective in demulsifying paraffinic crudes
- helps achieve clean separated water and good interface
- effective at low dosage levels

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
<td>Clear to hazy liquid</td>
</tr>
<tr>
<td>RSN</td>
<td></td>
<td>7.4(1)</td>
</tr>
<tr>
<td>Color</td>
<td>GVS</td>
<td>1</td>
</tr>
<tr>
<td>Density at 20°C</td>
<td>g/ml</td>
<td>1.007</td>
</tr>
<tr>
<td>Viscosity, 25°C, #3/6</td>
<td>cSt</td>
<td>2500</td>
</tr>
<tr>
<td>Flash Point Pensky-Martens Closed Cup ASTM D-93</td>
<td>°C</td>
<td>115.6</td>
</tr>
</tbody>
</table>
Potential Applications
As with many Silbreak silicone demulsifiers, Silbreak 504 silicone demulsifier is not intended to replace organic demulsifiers. Rather it should be blended with organic demulsifiers at levels ranging from 2 to 10% to boost the demulsification effect or clean up the separated water. In certain cases a high concentration of Silbreak 504 silicone demulsifier may lead to overtreatment. In order to avoid this, we recommend that the amount of Silbreak 504 silicone demulsifier added does not exceed 2-5% of the weight of the actives of the organic demulsifiers. Silbreak 504 silicone demulsifier generally shows strong synergies with organic polyols. At levels as low as 2%, it can contribute to reducing BS&W or improving the clarity of the separated water. It is particularly effective on heavy crudes of less than 25° API gravity. Aromatic solvents are recommended for use with Silbreak 504 silicone demulsifier. Appropriate care should be taken when using flammable solvents.

Patent Status
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