Halad®-322 is a fluid-loss additive designed for use in low-temperature wells. It can be used in wells with bottomhole circulating temperatures (BHCTs) of 180°F (82°C) and below.

**Features**

Even at temperatures as low as 100°F (37.8°C), Halad®-322 additive acts as a mild cement retarder. It was specifically designed for shallow wells in which other low fluid-loss additives can significantly retard compressive-strength development. Halad®-322 additive is a dispersant as well as a fluid-loss additive; therefore, slurries containing this additive should always be designed to possess adequate solids suspension properties.

**Compatibilities**

Halad®-322 additive is compatible with 5% KCl, 3% CaCl₂, and up to 18% NaCl by weight of water.

**Benefits**

Halad®-322 additive is an easy-to-mix dispersant that permits the design of low-viscosity slurries. Often, this additive allows turbulent-flow cementing. In addition, Halad®-322 additive can provide the following benefits:

- It helps keep horsepower requirements low by controlling viscosity and circulation pressures.
- Halad®-322 additive helps control gas migration and can improve squeeze cementing results.
- It helps protect water-sensitive formations and can provide a better cement/casing bond.
- Halad®-322 additive helps maintain slurry density.

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**Halad®-322 Cement Additive—Product Specifications**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>516.00144</th>
<th>Bulk Density</th>
<th>35.20 lb/ft³</th>
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</thead>
<tbody>
<tr>
<td>Form</td>
<td>Solid, reddish powder</td>
<td>Packaging</td>
<td>50-lb bag</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.280</td>
<td></td>
<td></td>
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</tbody>
</table>