**Cementing**

**Halad®-344**

**Fluid-Loss Additive**

Halad®-344 fluid-loss additive is especially useful in lightweight cementing compositions that often have long thickening times. The material is nonretarding, thus making good compressive strength development possible at low temperatures. Halad®-344 additive performs as well in seawater as in fresh water, and is compatible with retarders, dispersants, and calcium chloride (CaCl₂).

**Features**

Halad®-344 additive has no temperature limitations. Laboratory testing has shown that it is effective at 400°F or higher. Other features can include the following:

- Excellent fluid-loss control is available with very low concentrations of Halad®-344 additive.
- Halad®-344 additive is relatively salt-tolerant, which can make it effective with up to 18% salt in a variety of cement compositions.

**Benefits**

Halad®-344 additive can provide the following benefits associated with low fluid loss in squeeze-cementing and primary cementing jobs.

**Squeeze Cementing.** In squeeze-cementing jobs, Halad®-344 additive can offer the following advantages:

- It helps reduce premature dehydration in tubing and casing while squeezing perforations.
- Long perforated intervals can often be successfully squeezed in a single stage.
- Satisfactory squeeze results can be obtained at low pressures without overdisplacement.
- The additive helps protect water-sensitive shale sections that may weaken and break down because of cement filtrate.
- Halad®-344 additive helps reduce the amount of filtrate that can penetrate formations containing bentonite clays.

**Primary Cementing.** Halad®-344 additive helps provide the following benefits during primary cementing jobs:

- It can lessen the possibilities of water and/or emulsion blocks, and blocks caused by bentonitic clay swelling resulting from cement filtrate.
- Halad®-344 additive helps protect water-sensitive shales, and can reduce premature bridging in annuli, which may be caused by dehydration.
- It also helps reduce loss of water from slurry, thus maintaining lower viscosities and circulating pressures.
- Halad®-344 additive helps control gas leakage while cement is setting.

### Halad®-344 Additive—Product Specifications

<table>
<thead>
<tr>
<th>Part No.</th>
<th>516.00227</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>white to off-white solid powder</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.220</td>
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<tr>
<td>Bulk Density</td>
<td>26.00 lb/ft³</td>
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<tr>
<td>Packaging</td>
<td>50-lb sack</td>
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</tbody>
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