HR®-5 Cement Additives

HR®-5 additive is a chemically modified lignosulfonate that retards the setting of cement. It is designed for use in wells with circulating temperatures between 125° and 206°F (290°F static).

Features
HR-5 additive is compatible with the following:
- fresh or saltwater slurries
- most cement additives
- all API cements
- bentonite cement
- Pozmix® A cement

Benefits
HR-5 additive provides the following benefits:
- Increased concentrations of HR-5 additive enhance the predictability of cement thickening times.
- HR-5 additive decreases the danger of over-retarded slurries at the top of a long cement column.
- HR-5 additive provides early cement strength development.
- Operators can use HR-5 additive to help displace slurries at high rates while maintaining formation pressure.

HR®-5 Additive—Product Specifications

<table>
<thead>
<tr>
<th>Part No.</th>
<th>100005050</th>
<th>Bulk Density</th>
<th>38 lb/ft³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Black, solid powder</td>
<td>Packaging</td>
<td>50-lb bag</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.41</td>
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</tbody>
</table>
For more information on the benefits HR®-5 Cement Additive can bring to your cementing operations, contact your local Halliburton representative.