Microbond™ expanding additive for cement is a crystalline-growth cement additive that provides low-temperature expansion.

**Applications**

MicroBond additive can provide adequate expansion at bottomhole temperatures (BHTs) below 170°F (76.6°C). Optimum expansion occurs at BHTs below 130°F (54°C). Required additive concentrations are 5 to 10% for lower temperatures and 10 to 20% for higher temperatures.

**Features**

MicroBond additive can provide increased expansion in low-strength cements, such as 50/50 Pozmix® cement blends.

At temperatures below 115°F (46°C), salt may improve the performance of MicroBond additive.

**Benefits**

MicroBond additive can provide the following benefits:

- It can be used with all Portland cements, regardless of their tricalcium aluminate (C3A) content.
- The Environmental Protection Agency (EPA) does not classify MicroBond additive as a hazardous waste.
- This additive has a shelf-life of up to 24 months.

### Microbond™ Expanding Additive for Cement—Product Specifications

<table>
<thead>
<tr>
<th>Part No. (50-lb sk)</th>
<th>Specific Gravity</th>
<th>Bulk Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>100003669</td>
<td>2.4</td>
<td>59.40 lb/ft³</td>
</tr>
<tr>
<td>Form</td>
<td>Light pink solid powder</td>
<td></td>
</tr>
</tbody>
</table>
Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.