Conformance

MA-22™

Polymer

MA-22™ polymer is a conformance tool used for water control in well stimulation.

Applications

MA-22 is a low-temperature-range polymer that is effective from 70° to 150°F (21° to 66°C). It helps guard against thermal decomposition and premature crosslinking.

A shut-in time of approximately 2 to 48 hours allows solutions mixed with MA-22 polymer to develop full crosslinked strength. In general, gel time is a function of the polymer’s hydrolysis rate, which increases with increasing temperature and pH.

Compatibilities

MA-22 polymer is incompatible with strong oxidizers. Typically, chemicals are compatible with MA-22 polymer if crosslinking begins within approximately 1 hour.

MA-22 polymer can be mixed with fresh water, 2% KCl, and seawater. Varying the salinity and/or the pH of the mix water helps control gel time.

When used with a conformance treatment such as Matrol™ 3+ service, a MOC/One™ cement tail-in helps traverse and seal microfractures and channels near the wellbore, and helps minimize treatment volumes and concentrations. Additionally, adding BE-5™ to such service solutions can inhibit biofouling.

Benefits

The concentration of MA-22 polymer can be varied throughout the job as different gel strengths are needed. Additionally, when used with a conformance treatment such as Matrol 3+ service, MA-22 polymer provides the following benefits:

• It helps provide for low-viscosity placement and deep-matrix penetration.
• Delayed crosslinking yields high-matrix viscosity.
• The polymer solution is unaffected by H₂S and is chemically removable.

### MA-22™ Polymer—Product Specifications

<table>
<thead>
<tr>
<th>Part No.</th>
<th>516.00919</th>
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<tbody>
<tr>
<td>Form</td>
<td>Off-white to white solid powder</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>42.00 lb/ft³</td>
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<tr>
<td>Packaging</td>
<td>55-lb bag</td>
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For more information on the benefits of MA-22™ Polymer, contact your local Halliburton representative.