Perm E™ Conformance Additive

Perm E™ conformance additive is an azo compound that acts as the mid-temperature initiator in PermSeal™ and PermTrol™ service treatments, both of which are in-situ polymerized gelation systems that reduce permeability to water. PermSeal service is used in hydrocarbon-producing wells, and PermTrol service is used in waterflood and carbon dioxide (CO₂) water-alternating-gas (WAG) injection wells. PermTrol service also diverts injection fluids for greater sweep efficiency.

Applications

At temperatures between 130° and 150°F (54° and 66°C), Perm E conformance additive initiates the change from liquid to solid in PermSeal and PermTrol service treatments. Initiator concentrations vary depending on the required results and various well conditions.

Benefits

When used in PermSeal and PermTrol service treatments, Perm E conformance additive can provide the following benefits:

- in-situ polymerization
- predictable gel times
- nonhazardous waste according to the Environmental Protection Agency (EPA)

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Perm E™ Conformance Additive—Product Specifications

<table>
<thead>
<tr>
<th>Part No. (11-lb fiber drum)</th>
<th>100064155</th>
<th>Specific Gravity</th>
<th>0.500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>White, solid crystal powder</td>
<td>Bulk Density</td>
<td>31.20 lb/ft³</td>
</tr>
</tbody>
</table>

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HALLIBURTON
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.