Perm Z™ Monomer

Perm Z™ monomer is a low-toxicity acrylate monomer that can be used in the PermSeal™, PermSeal™ 600, and PermTrol™ services.

**Applications**

When used in PermSeal and PermSeal 600 services, Perm Z monomer reacts in-situ with a specified activator to form a rubbery, insoluble polymer gel. This gel helps seal water-producing and high-pressure zones, minimize waterflood and CO₂ channeling, and control gas migration and lost circulation at deviated well kickoff points. The polymerization time, controllable at lower to mid-range temperatures, is a function of temperature and formulation.

When used in the PermTrol service, Perm Z monomer aids oil recovery by forming a thick, water-soluble polymer slug that diverts injection water from highly permeable zones to previously unswept, oil-bearing zones. Injection water following the PermTrol service treatment slowly fingers through the polymer slug, and it viscosifies as it solubilizes the polymer. This process results in a more favorable water-oil mobility throughout the reservoir.

**Compatibilities**

Perm Z monomer is interchangeable with Perm A monomer in most applications.

**Benefits**

When used in the PermSeal and PermSeal 600 services, Perm Z monomer helps:

- seal water-producing and high-pressure zones
- minimize waterflood and CO₂ channeling
- control gas migration and lost circulation at deviated well kickoff points

When used with the PermTrol service, Perm Z monomer helps:

- increase volumetric sweep efficiency
- improve water-oil mobility throughout the reservoir

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**Perm Z™ Monomer—Product Specifications**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>100012292</th>
<th>pH</th>
<th>3 to 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Clear liquid</td>
<td>Packaging</td>
<td>55-gal drum</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.100</td>
<td>Boiling Point</td>
<td>410°F (210°C)</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>9.16 lb/gal</td>
<td>Flash Point</td>
<td>214°F (101°C)</td>
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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.