**Cla-Sta® XP Clay-Stabilizing Agent**

Cla-Sta® XP agent is a water-soluble cationic oligomer that preferentially adsorbs and replaces gel from clay and silica surfaces. This property prevents clay swelling and migration during and after fracturing, gravel packing, and acidizing treatments. Supplied as a 60% active concentrate, Cla-Sta XP has approximately twice the activity of other Cla-Sta agents.

**Features**

Cla-Sta XP is a hazy, light amber liquid normally used at a concentration of 1 to 7 gal/Mgal. It stabilizes water-sensitive clays to freshwater shock even after exposure to superheated water [500°F (260°C)] for 48 hours.

**Applications**

Cla-Sta XP agent provides clay and fines control in most fracturing, acidizing, and gravel-pack operations and is the preferred Cla-Sta product in formations with permeabilities of less than 30 md.

Cla-Sta XP agent is compatible with all basic HCl and HF acid systems and with most cationic, nonionic, and amphoteric surfactants. Anionic surfactants usually form an insoluble precipitate when used with Cla-Sta XP.

**Benefits**

Cla-Sta XP agent has the following benefits:

- Because it has a higher chemical concentration than other agents, smaller volumes of Cla-Sta XP can be used.
- Cla-Sta XP is compatible with many aqueous fracturing fluids.
- It can be batch-mixed into the base fluid or continuously mixed at the blender.
- It leaves formations water-wet and is resistant to washoff by hydrocarbons and brines.
- Cla-Sta XP agent requires no cure time.

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**Cla-Sta® XP Clay-Stabilizing Agent—Product Specifications**

<table>
<thead>
<tr>
<th>Part No. (Bulk)</th>
<th>100003733</th>
<th>Bulk Density</th>
<th>9.51 lb/gal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No. (55-gal drum)</td>
<td>100003734</td>
<td>Pour Point</td>
<td>&lt;30°F (-34.4°C)</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
<td>Freeze Point</td>
<td>&lt;30°F (-34.4°C)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>60 maximum</td>
<td>Packaging</td>
<td>Bulk/55-gal drum</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.