Cla-Web™ II Clay Damage Control Additive
Stabilize Water-sensitive Clays for Improved Well Productivity

Provides Improved Clay Damage Protection and Environmental Performance.

Clay stabilization is necessary in hydraulic fracturing, gravel packing, or fines-stabilization of formation sands or proppant packs when water-swelling clays are present in a significant amount. Cla-Web II additive is a liquid clay stabilizer used as a treatment for formation sands or proppant packs and offers an alternative to KCl, NaCl, Choline Chloride and KCl substitutes as a permanent clay-protection additive.

Applications
- Liquid clay stabilization additive that can be used in hydraulic fracturing treatments
- Alternative to KCl, NaCl, choline chloride and other KCl substitutes for clay control service
- Applicable for bottomhole temperature from 50 - 450°F (10 - 232°C)

Benefits
- Superior performance at lower concentration on low and moderate clay content reservoirs and with improved environmental characteristics
- Long-term water-sensitive protection, by rendering water swelling clays insensitive to changes in water salinity resulting in excellent sustained permeabilities
- Can be batch mixed or metered on-the-fly as a liquid additive to save mixing time
- Halliburton Chemical Scoring Index (CSI Score) value of 158

Compatibilities
Cla-Web II additive is compatible with the following:
- Most current guar-based fracturing fluids, including Hybor G, Hybor H, SilverStim® stimulation services, Delta Frac® fracturing services, Sirocco® stimulation service, and Thermagel™ fluid system
- Most friction reducers
- Sand Wedge® ABC conductivity enhancer
- Other clay fines-control systems, including Cla-Sta® XP clay-stabilizing agent and Cla-Sta® FS compound

Cla-Web™ II Clay Damage Control Additive Specifications

<table>
<thead>
<tr>
<th>Part No. (bulk)</th>
<th>Form</th>
<th>Colorless, slightly yellow</th>
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<tbody>
<tr>
<td>955783</td>
<td></td>
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<tr>
<td>Part No. (330 gal tote)</td>
<td>Flash Point</td>
<td>&gt;212 °F (&gt;100 °C)</td>
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<tr>
<td>Bulk Density</td>
<td>Specific Gravity</td>
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<td>8.85 lb/gal</td>
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