Legend™ LD-7805
Solid Scale Inhibitor

OVERVIEW
Legend™ LD-7805 is a solid phosphonate scale inhibitor which can be added to
the hydraulic fracturing fluid during the proppant stages to prevent the formation
of scale. Placement during the proppant stages allows the LD-7805 to remain in
the proppant pack so that short and long term inhibition is achieved. LD-7805 will
slowly release into the water phase during production, providing broad spectrum
scale inhibition in the near-wellbore region and tubulars as fluid is produced to
surface. LD-7805 is within a 30/50 mesh size and is effective at temperatures up to
400°F. This product is designed to give long-term scale inhibition protection through
application during fracturing treatments.

APPLICATIONS
LD-7805 scale inhibitor is applied during fracturing operations typically into the
proppant bin as the sand screws are moving proppant into the blender tub, or in
the overhead screws going into the blender tub. Care is taken to ensure consistent,
even distribution of the material during the stage.

Selection of LD-7795 should be based on a complete water and scale analysis
prior to treatment. Recommended dosages can be as high as 2% by weight of the
proppant pumped, though for many fracturing applications loadings as low as 25
lbs per stage are not uncommon recommended. Detailed information about the
connate water, surface source water, and proposed hydraulic fracturing treatment
will aid in designing the proper scale inhibition program.

COMPATIBILITIES
LD-7805 scale inhibitor is compatible with most stimulation chemicals. Because
compatibility depends on chemical concentrations, LD-7805 should always be
tested for compatibility when used with other materials, and particularly, with metal
crosslinker materials. Laboratory testing with guar-based crosslinked fluids and
slickwater fluid systems has shown no compatibility issues by inclusion of LD-7805.

Product Specifications

<table>
<thead>
<tr>
<th>Form</th>
<th>Opaque, white to off white solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity, 72°F</td>
<td>1.69</td>
</tr>
<tr>
<td>Bulk Density, 72°F</td>
<td>7.76 lb/gal</td>
</tr>
<tr>
<td>pH</td>
<td>4.6 as a 3% suspension in water at 72°F</td>
</tr>
</tbody>
</table>

FEATURES/BENEFITS
» Remains in proppant pack providing extended-release scale inhibition
» Protects against a broad spectrum of scales
» Provides inhibition in wells up to 400°F
» Environmentally friendly due to dry, inert physical form
» Can be injected during fracturing treatment, frac-pack, gravel pack or
  pre-packed screen system
For comparative analysis, LD-7805 scale inhibitor was run in parallel with LD-7795 scale inhibitor in a core flow apparatus. This test method is used to measure relative performance for solids with delayed release rates. LD-7805 in these tests performs at least as good as LD-7795.