The LC-LUBE™ PLUS custom-engineered synthetic graphite/carbon blend controls subsurface formation losses in depleted, porous, or fractured formations. The size, shape, and durable nature of the LC-LUBE PLUS blend makes it ideal for pre-emptive use in highly depleted reservoirs and high-pressure/high-temperature (HP/HT) wells. As a custom-engineered formula, it functions as a high-performing solid lubricant, and has proven to provide an increase in rate of penetration, especially in deviated and lateral wells. The custom-engineered and thermally stable formula in the LC-LUBE PLUS blend continues to improve in performance, even after use in high-shear and high-temperature conditions. Due to its inert nature, the LC-LUBE PLUS blend is fully compatible with aqueous and nonaqueous drilling fluids with no adverse effects on chemical or rheological properties.

**Recommended treatment**
For optimum results, the recommended treatment levels of the LC-LUBE PLUS blend are between 5 and 10 lb/bbl, and in sweeps, treatment levels should be between 20-40 lb/bbl, depending on drilling conditions and rate of losses.

**Environmental information**
For information concerning environmental regulations applicable to this product, contact the Health, Safety, and Environmental department of Baker Hughes.

**Safe handling recommendations**
Take normal precautions for protection while using appropriate personal protective equipment. See the Material Safety Data Sheet before use.

**Packaging**
The LC-LUBE PLUS blend is packaged in 50-lb bags.

## Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Gray to black</td>
</tr>
<tr>
<td>Form</td>
<td>Solid, granular powder</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.9–2.2</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble</td>
</tr>
</tbody>
</table>

**Applicability**
- Aqueous and nonaqueous drilling fluids
- Porous, permeable, and/or fractured formations
- HP/HT applications
- Drilling in overbalanced conditions
- Deviated and lateral wells

**Features and Benefits**
- Enhanced particle size distribution
  - Minimizes fluid invasion and fracture propagation across a wide range of pore throat sizes
- Highly engineered, custom formula
  - Continues to improve performance even after high shear conditions
  - Improves penetration rates while sliding and further eases running pipe
- Thermally stable composition
  - Reduces HP/HT fluid loss in high-temperature applications