EZ SPOT® 
PIE-FREEING AGENT

Product Description

EZ SPOT® pipe-freeing agent can be mixed with base oil and water to rapidly create an invert emulsion that is effective stuck pipe pill. EZ SPOT pipe-freeing agent lubricates and dehydrates filter cake from water-based fluids to aid in breaking the cake apart to help alleviate differentially stuck drill pipe. EZ SPOT pipe-freeing agent is preferred when a weighted spot is desired to match the system density and can be used as a spacer fluid between oil based drilling fluids and cement.

Applications/Functions

» Formulate a pill to help release differently stuck pipe
» Helps prevent interfacial thickening of oil-based mud and cement during cementing
» Helps emulsify water in oil-based fluids

Advantages

» Thermally stable at temperatures up to 400°F (205°C)
» Can be formulated with varying oil/water ratios
» Liquid concentrate for ease of addition
» Easily weighted with any weighting agent

Typical Properties

» Appearance: Thick, brownish-green liquid
» Flash Point, PMCC: 88°F
» Flash Point, PMCC: 31°C
» Specific gravity: 0.98

Recommended Treatment

See the table for the amounts of base oil, barite, water and EZ SPOT pipe-freeing agent fluid concentrate for 100 bbl (16 m³) of spotting fluid.

An additional viscosifier such as GELTONE® II may be required to suspend barite in weighted fluids.
Packaging
EZ SPOT pipe-freeing agent is packaged in a variety of sizes including 15-gal (56.7-l), 55-gal (208-l) drums in bulk, and others.

<table>
<thead>
<tr>
<th>Density, lb/gal</th>
<th>7.3</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil/Water Ratio</td>
<td>70/30</td>
<td>70/30</td>
<td>70/30</td>
<td>70/30</td>
<td>82/18</td>
<td>82/18</td>
</tr>
<tr>
<td>Base Oil, bbl</td>
<td>65</td>
<td>58</td>
<td>54</td>
<td>49</td>
<td>51</td>
<td>44</td>
</tr>
<tr>
<td>EZ SPOT fluid, drum</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Water, bbl</td>
<td>28</td>
<td>26</td>
<td>22</td>
<td>21</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>BAROID® material, 100lb sacks (45.4 kg)</td>
<td>-</td>
<td>140</td>
<td>250</td>
<td>350</td>
<td>465</td>
<td>570</td>
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</tbody>
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