SUPA 75® Slickline

UNS N08926

SUPA 75® is a super austenitic stainless steel with increased molybdenum and nitrogen suitable for extremely sour gas and oil well conditions with CO₂, H₂S and chlorides present. SUPA 75® is characterized by very high resistance to pitting and crevice corrosion in H₂S containing sour environments, with outstanding resistance to chloride ion stress corrosion cracking. SUPA 75® has excellent general corrosion resistance to a wide range of chemical media, both oxidizing and reducing, including sulphuric acid, sour gas, seawater, salts and organic acids. SUPA 75® slicklines are available in continuous weld free lengths up to 30,000+ ft (9145 m). Every SUPA 75® line is 100% NDT and inspected. SUPA® slicklines are shipped on steel reels. Custom lengths and diameters are available.

Chemical Compositional Range (wt. %)

<table>
<thead>
<tr>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ni</td>
<td>24.0</td>
</tr>
<tr>
<td>Cr</td>
<td>20.0</td>
</tr>
<tr>
<td>Mo</td>
<td>6.0</td>
</tr>
<tr>
<td>Cu</td>
<td>0.5</td>
</tr>
<tr>
<td>N</td>
<td>0.15</td>
</tr>
<tr>
<td>Mn</td>
<td>0.20</td>
</tr>
<tr>
<td>P</td>
<td>0.03</td>
</tr>
<tr>
<td>S</td>
<td>0.02</td>
</tr>
<tr>
<td>C</td>
<td>PRE</td>
</tr>
</tbody>
</table>

PRE = %Cr + 3.3 x % Mo + 16 x %N

Physical Properties

<table>
<thead>
<tr>
<th>Density</th>
<th>8.10 g/cm³</th>
<th>0.293 lbs/in³</th>
</tr>
</thead>
</table>

Thermal Expansion

| 9.2 x 10⁻⁶ (32 to 212 °F) | 16.6 x 10⁻⁶ (0 to 100 °C) |

Thermal Conductivity

| 89.0 BTU in/ft² h °F (212 °F) | 12.9 W/m °K (100 °C) |

Minimum Breaking Load (lbf)

<table>
<thead>
<tr>
<th>Dia. (in.)</th>
<th>Dia. (mm)</th>
<th>Minimum Breaking Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>.092</td>
<td>2.34</td>
<td>1,620</td>
</tr>
<tr>
<td>.108</td>
<td>2.74</td>
<td>2,170</td>
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<tr>
<td>.125</td>
<td>3.18</td>
<td>2,850</td>
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<tr>
<td>.140</td>
<td>3.56</td>
<td>3,400</td>
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<tr>
<td>.150</td>
<td>3.81</td>
<td>4,020</td>
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<tr>
<td>.160</td>
<td>4.06</td>
<td>4,400</td>
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</table>

Nominal Breaking Load (kN)

<table>
<thead>
<tr>
<th>Dia. (in.)</th>
<th>Dia. (mm)</th>
<th>Minimum Breaking Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>.092</td>
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<td>7.21</td>
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<tr>
<td>.108</td>
<td>2.74</td>
<td>9.65</td>
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<tr>
<td>.125</td>
<td>3.18</td>
<td>12.68</td>
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<tr>
<td>.140</td>
<td>3.56</td>
<td>15.12</td>
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<tr>
<td>.150</td>
<td>3.81</td>
<td>17.88</td>
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<tr>
<td>.160</td>
<td>4.06</td>
<td>19.57</td>
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</tbody>
</table>

Weight (lbs./1,000 ft.)

<table>
<thead>
<tr>
<th>Dia. (in.)</th>
<th>Dia. (mm)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>.092</td>
<td>2.34</td>
<td>23.37</td>
</tr>
<tr>
<td>.108</td>
<td>2.74</td>
<td>32.21</td>
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<tr>
<td>.125</td>
<td>3.18</td>
<td>43.15</td>
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<tr>
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<td>3.56</td>
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<tr>
<td>.160</td>
<td>4.06</td>
<td>70.70</td>
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</table>

Weight (kg/1000 m)

<table>
<thead>
<tr>
<th>Dia. (in.)</th>
<th>Dia. (mm)</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
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<td>34.78</td>
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<tr>
<td>.108</td>
<td>2.74</td>
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<tr>
<td>.125</td>
<td>3.18</td>
<td>64.21</td>
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<tr>
<td>.140</td>
<td>3.56</td>
<td>80.54</td>
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<tr>
<td>.150</td>
<td>3.81</td>
<td>92.44</td>
</tr>
<tr>
<td>.160</td>
<td>4.06</td>
<td>105.21</td>
</tr>
</tbody>
</table>

To maximize the life of your SUPA® Slickline:

- Use properly sized sheaves (min. sheave diameter = 120 x wire OD) and inspect them for excessive wear
- Ensure the sheaves rotate freely
- Always use new guides in the stuffing box
- Avoid kinking the line
- Layer winding or smooth wrapping the wire onto the winch drum will result in extended life / less damage and reduced likelihood of small kinks
- Prevent the line from rubbing the side of the drum, dragging on the ground, over shafts or other equipment
- Maintain the natural curvature of the wire, maintain constant tension during winding and re-spooling operations
- Exercise extreme caution during jarring operations, check “jarred” lines for possible stretch (reduced wire diameter) or other damage
- When running the line down hole avoid sudden brake application
- Never store reels on their sides
- Maintain a logbook for each line is recommended
- Clean the line after each use