SUPA 80® Slickline

UNS N08031

SUPA 80® is a super austenitic stainless steel with increased chromium, molybdenum and nitrogen content suitable for extremely sour gas and oil well conditions where CO₂, H₂S and chlorides are present. SUPA 80® has improved corrosion resistance and break strength than grades containing 6% Mo. SUPA 80® is characterized by outstanding resistance to pitting and crevice corrosion in concentrated H₂S containing sour environments, excellent resistance to both localized and general corrosion and chloride stress corrosion. SUPA 80® has excellent corrosion resistance to a wide range of chemical media, both oxidizing and reducing, including sulphuric acid, sour gas, seawater and salts. SUPA 80® slicklines are manufactured from shaved rod stock and are available in continuous weld free lengths up to 30,000 ft (9145 m). Every SUPA 80® 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></th>
<th>Ni</th>
<th>Cr</th>
<th>Mo</th>
<th>Cu</th>
<th>N</th>
<th>Mn</th>
<th>P</th>
<th>S</th>
<th>C</th>
<th>PRE = %Cr +3.3 x % Mo + 16 x %N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min</td>
<td>30.0</td>
<td>26.0</td>
<td>6.0</td>
<td>1.0</td>
<td>0.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td>32.0</td>
<td>28.0</td>
<td>7.0</td>
<td>1.4</td>
<td>0.25</td>
<td>2.00</td>
<td>0.02</td>
<td>0.01</td>
<td>0.015</td>
<td>PRE = 48.2 to 55.1</td>
</tr>
</tbody>
</table>

Physical Properties

- Density: 0.293 lbs./in³ = 8.10 g/cm³
- Thermal Expansion: 7.9 x 10⁻⁶ (32 to 212 °F) = 14.3 x 10⁻⁶ (0 to 100 °C)
- Thermal Conductivity: 90.0 BTU in/Ft². h. °F @ 212 °F = 15.0 W/m. °K @ 100 °C

Physical Properties

<table>
<thead>
<tr>
<th>Dia. (in.)</th>
<th>Dia. (mm)</th>
<th>Breaking Load (lbs.)</th>
<th>Breaking Load (kN)</th>
<th>Weight (lbs/1,000 ft.)</th>
<th>Weight (kg/1000 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>.092</td>
<td>2.34</td>
<td>1,680</td>
<td>7.47</td>
<td>23.37</td>
<td>14.78</td>
</tr>
<tr>
<td>.108</td>
<td>2.74</td>
<td>2,244</td>
<td>9.98</td>
<td>32.21</td>
<td>47.93</td>
</tr>
<tr>
<td>.125</td>
<td>3.18</td>
<td>3,100</td>
<td>13.79</td>
<td>43.15</td>
<td>64.21</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 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
- Maintaining a logbook for each line is recommended
- Clean the line after each use

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