6063 ALLOY
ALUMINUM CONTINUOUS CAST RE-DRAW ROD

PRODUCT DESCRIPTION

• Heat-treatable alloy
• Principle alloying elements: magnesium and silicon
• Density: 2.70 g/cm³
• Standard diameter: *.375" (9.5mm), 500" (12.7mm)
• Tempers supplied: F (as Fabricated), T4 (Thermally Treated)

STANDARD PACKAGING**

• Weight: 5,600 lbs (2,540 kg)
• ID: 30.75" (78.10 cm)
• OD: 61.50" (156.21 cm)
• W: 34.00" (86.36 cm)
• Option: Palletized, eye-to-the-sky, ID and/or OD wrapping
• Rod surface condition: very clean to oiled

END-USE APPLICATION

• Knitting needles
• Various round wire products

GENERAL INFORMATION

• Alloy equivalent or similar to: AIMgSi0.5 (Austria), ZGS10 (Canada), A-OS (France), AIMgSi0.5 (Germany), H19 (Great Britain)
• Wire Specification: ASTM B211
• Polycrystalline diamond dies recommended for drawing to prevent die galling

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>TEMPER</th>
<th>ULTIMATE TENSILE STRENGTH</th>
<th>PERCENT ELONGATION IN 10&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ksi</td>
<td>(MPa)</td>
</tr>
<tr>
<td>ROD (.375&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>20-28</td>
<td>(140-195)</td>
</tr>
<tr>
<td>T4</td>
<td>28-32</td>
<td>(195-220)</td>
</tr>
<tr>
<td>WIRE (10 AWG)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>15-19</td>
<td>(105-130)</td>
</tr>
<tr>
<td>T6</td>
<td>32-38</td>
<td>(220-260)</td>
</tr>
<tr>
<td>T81</td>
<td>46-48</td>
<td>(315-330)</td>
</tr>
</tbody>
</table>

*other diameters: .375" (9.5mm) – 1.0" (25.4mm) available upon minimum quantity requirements
**other packaging: 4,000 lbs (1,814 kg) – 7,500 lbs (3,402 kg) available based upon minimum quantity requirements