**PRODUCT DESCRIPTION**

- Non-heat-treatable alloy
- Principle alloying elements: none (primary trace elements: magnesium, iron and silicon)
- Density: 2.70 g/cm³
- Standard diameter:* .375" (9.5mm), 500" (12.7mm), .6875" (17.5mm)
- Tempers supplied: F

**STANDARD PACKAGING**

- Weight: 4,000 lbs (1,814 kg)
- ID: 30.75" (78.10 cm)
- OD: 56.50" (143.51 cm)
- W: 34.00" (86.36 cm)
- Option: Palletized, eye vertical or horizontal
- Rod surface condition: very clean to oiled

**END-USE APPLICATION**

- Deoxidation of steel through ladle refinement

**GENERAL INFORMATION**

- In the pursuit of correct steel chemistry, temperature and the maximum removal of sulphur, phosphorus and dissolved gases, the single most important step is the deoxidation of steel.

**ADVANTAGES OF ROD**

- Ease of addition
- Rapid rate of reaction
- Low cost
- Strong affinity for oxygen
- Grain refinement properties

**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>F</td>
<td>15-24</td>
<td>(105-165)</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

For Steel Deoxidation