**Key Features**

- **Good Oxidation Resistance**
- **Good Corrosion Resistance at high temperatures**
- **High temperature static applications**

**INCONEL® 600 available in:**

- Round wire
- Bars or lengths
- Flat wire
- Shaped wire
- Rope/Strand

**Packaging**

- Coils
- Spools
- Bars or lengths

**IMPORTANT**

We will manufacture to your required mechanical properties.

**INCONEL® 600 available in:**

- Order 3m to 3t
- (10ft to 6000Lbs)
- Delivery: within 3 weeks
- Wire to your spec
- E.M.S available
- Technical support
### Chemical Composition

<table>
<thead>
<tr>
<th>Element</th>
<th>Min %</th>
<th>Max %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ni</td>
<td>72.00</td>
<td>-</td>
</tr>
<tr>
<td>Cr</td>
<td>14.00</td>
<td>17.00</td>
</tr>
<tr>
<td>Fe</td>
<td>6.00</td>
<td>10.00</td>
</tr>
<tr>
<td>Mn</td>
<td>-</td>
<td>1.00</td>
</tr>
<tr>
<td>C</td>
<td>-</td>
<td>0.10</td>
</tr>
<tr>
<td>Cu</td>
<td>-</td>
<td>0.50</td>
</tr>
<tr>
<td>Si</td>
<td>-</td>
<td>0.50</td>
</tr>
<tr>
<td>S</td>
<td>-</td>
<td>0.015</td>
</tr>
<tr>
<td>P</td>
<td>-</td>
<td>0.04</td>
</tr>
<tr>
<td>Co</td>
<td>-</td>
<td>1.00</td>
</tr>
<tr>
<td>Nb/Cb</td>
<td>-</td>
<td>1.00</td>
</tr>
<tr>
<td>Ti</td>
<td>-</td>
<td>0.50</td>
</tr>
<tr>
<td>Ta</td>
<td>-</td>
<td>0.05</td>
</tr>
<tr>
<td>Al</td>
<td>-</td>
<td>0.35</td>
</tr>
</tbody>
</table>

### Specifications

- AMS 5665
- AMS 5687
- ASTM B166
- BS 3075 NA 14
- BS 3076 NA 14
- DTD 328A
- QQ-W-390

### Key Features
- Good Oxidation Resistance
- Good Corrosion Resistance at high temperatures
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### Typical Applications
- Furnace Components
- Chemical Processing
- Food Processing
- Nuclear Engineering

### Designations
- W.Nr. 2.4816
- UNS N06600
- AWS 010

### Density
- 8.47 g/cm³
- 0.306 lb/in³

### Melting Point
- 1413°C
- 2575 °F

### Coefficient of Expansion
- 13.3 µm/m °C (20 – 100 °C)
- 7.4 x 10⁻⁶ in/in °F (70 – 212 °F)

### Modulus of Rigidity
- 75.6 kN/mm²
- 10965 ksi

### Modulus of Elasticity
- 206 kN/mm²
- 29878 ksi

### Heat Treatment of Finished Parts

<table>
<thead>
<tr>
<th>Condition as supplied by Alloy Wire</th>
<th>Type</th>
<th>Temperature</th>
<th>Time (Hr)</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annealed or Spring Temper</td>
<td>Stress Relieve</td>
<td>460°C</td>
<td>1</td>
<td>Air</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Condition</th>
<th>Approx. tensile strength</th>
<th>Approx. operating temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N/mm²</td>
<td>ksi</td>
</tr>
<tr>
<td>Annealed</td>
<td>600 – 850</td>
<td>87 – 123</td>
</tr>
<tr>
<td>Spring Temper</td>
<td>900 – 1450</td>
<td>131 – 210</td>
</tr>
</tbody>
</table>

Slight magnetism may occur below 120 °C (184 °F)

The above tensile strength ranges are typical. If you require different please ask.

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**Static application** = still/fixed/motionless/rigid