Austenitic Chromium-Nickel Stainless Steel Sheet

**Typical Applications**
- Aerospace fabrication
- Panels
- Bodywork
- Blanking panels
- Space frames

**Product Description**
Austenitic chromium-nickel stainless steel stabilised with niobium. The material is available in cold rolled or cold rolled and tempered and is suitable for medium strength components requiring good corrosion resistance and cold workability. Good weldability. Tensile strength (Rm) 800-1100 N/mm².

**Cold Working**
Good cold workability

**Chemical Composition (weight %)**

<table>
<thead>
<tr>
<th>Weight (%)</th>
<th>C</th>
<th>Si</th>
<th>Mn</th>
<th>Cr</th>
<th>Mo</th>
<th>P</th>
<th>S</th>
<th>Ni</th>
<th>Nb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min</td>
<td>0.2</td>
<td>0.5</td>
<td>17.0</td>
<td></td>
<td></td>
<td>9.0</td>
<td>10X C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td>0.08</td>
<td>1.0</td>
<td>2.0</td>
<td>19.0</td>
<td>1.0</td>
<td>0.035</td>
<td>0.025</td>
<td>11.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Mechanical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (Rm)</td>
<td>800 - 100 N/mm²</td>
</tr>
<tr>
<td>0.2% Proof Stress</td>
<td>640 N/mm² max</td>
</tr>
<tr>
<td>Elongation (&lt;1.5mm thick)</td>
<td>11% min</td>
</tr>
</tbody>
</table>

**Key Features:**
- Added Niobium
- Good corrosion resistance and cold workability
- Medium strength
- Available in cold rolled or cold rolled and tempered
- Good weldability

**Corrosion Resistance**
Good corrosion resistance

**Weldability**
Good weldability

**Availability**
Sheet, strip

**Technical Assistance**
Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

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