**CHEMICAL COMPOSITION**

<table>
<thead>
<tr>
<th>Elements</th>
<th>Fe</th>
<th>Cr</th>
<th>Ni</th>
<th>Cu</th>
<th>Mn</th>
<th>Si</th>
<th>Nb</th>
<th>Co</th>
<th>P</th>
<th>S</th>
<th>C</th>
<th>O</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min</td>
<td></td>
<td></td>
<td>15</td>
<td>3</td>
<td>3</td>
<td>0.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td>17.5</td>
<td>5</td>
<td>5</td>
<td>1.2</td>
<td>1</td>
<td>0.45</td>
<td>0.099</td>
<td>0.04</td>
<td>0.03</td>
<td>0.07</td>
<td>0.03</td>
<td>0.1</td>
<td></td>
</tr>
</tbody>
</table>

**STANDARDS**

- European standards
  - X5CrNiCuNb 16-4
  - 1.4542
- US Standards
  - UNS S17400

**CHARACTERISTICS**

Precipitation hardening stainless steel produced by gas atomisation using ESH technology with:

- Excellent toughness properties
- High strength and corrosion resistance.

**QUALITY CERTIFICATES**

- ISO9001 accreditation
- Certified material test report according to EN 10 204/3.1

**DENSITY FOR LBM**

- Apparent density: 4.0 g/cm³ ±0.2
- Tap density: 5.8 g/cm³ ±0.2

**PARTICLE SIZE DISTRIBUTIONS**

- Laser Beam Melting (powder bed): 10-63 µm
- Electron Beam Melting (powder bed): 45-106 µm
- Directed energy deposition (LMD): 45-106 µm
- Customized particle size distributions upon request

**POWDER MORPHOLOGY**

Contact: powder@eramet-aubertduval.com
www.aubertduval.com

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