Pearl® Micro Ni625
Powder for Additive Manufacturing

CHEMICAL COMPOSITION

<table>
<thead>
<tr>
<th>Elements</th>
<th>Ni</th>
<th>Fe</th>
<th>Cr</th>
<th>Nb</th>
<th>Mo</th>
<th>Ti</th>
<th>Al</th>
<th>Mn</th>
<th>Si</th>
<th>Co</th>
<th>C</th>
<th>O</th>
<th>N</th>
<th>P</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min</td>
<td>Bal.</td>
<td>20</td>
<td>3.15</td>
<td>8</td>
<td></td>
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</tr>
<tr>
<td>Max</td>
<td>5</td>
<td>23</td>
<td>4.15</td>
<td>10</td>
<td>0.4</td>
<td>0.4</td>
<td>0.5</td>
<td>0.5</td>
<td>0.1</td>
<td>0.1</td>
<td>0.02</td>
<td>0.02</td>
<td>0.015</td>
<td>0.015</td>
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</tr>
</tbody>
</table>

GRADE DESIGNATION

- European standards
  - 22Mo9Nb
  - 2.4856
- US Standards
  - UNS N06625
  - ASTM F3056

CHARACTERISTICS

Nickel-based superalloy with:
- Very good resistance to oxidation
- Excellent mechanical properties at high temperatures up to 980°C (1800°F)
- Excellent corrosion resistance
- Good low temperature toughness

QUALITY CERTIFICATES

- EN9100 accreditation
- Certified material test report

PARTICLE SIZE DISTRIBUTION

Laser powder bed fusion (10-45 µm, 10-53 µm)
Electron powder bed fusion (45-90 µm)
Directed energy deposition (45-106 µm, 45-150 µm)
Customized particle size distribution on demand

DENSITY

- Apparent density: 4.5 g/cm³ ±0.2
- Tap density: 5.3 g/cm³ ±0.2

SHAPE AND MORPHOLOGY

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

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