CHEMICAL COMPOSITION

<table>
<thead>
<tr>
<th>Elements</th>
<th>Fe</th>
<th>Al</th>
<th>Cr</th>
<th>Nb</th>
<th>Ni</th>
<th>Mo</th>
<th>Ti</th>
<th>B</th>
<th>Co</th>
<th>Cu</th>
<th>Mn</th>
<th>P</th>
<th>Si</th>
<th>C</th>
<th>S</th>
<th>O</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td>0.8</td>
<td>21</td>
<td>5.5</td>
<td>55</td>
<td>3.3</td>
<td>1.15</td>
<td>0.006</td>
<td>0.1</td>
<td>0.3</td>
<td>0.35</td>
<td>0.015</td>
<td>0.35</td>
<td>0.08</td>
<td>0.015</td>
<td>0.03</td>
<td>0.03</td>
<td></td>
</tr>
</tbody>
</table>

STANDARDS

- European standards
  - NiCr19Fe19Nb5Mo3
  - 2.4668
- US Standards
  - UNS N07718
  - ASTM F3055

CHARACTERISTICS

Precipitation hardened, nickel-based superalloy powder produced by VIM Gas atomization with:
- Good resistance to high temperature oxidation
- Excellent mechanical properties up to temperatures around 700°C (1292°F)
- Generally used for parts working within the 600-700°C range (1112-1292°F)

PARTICLE SIZE DISTRIBUTIONS

- Laser Beam Melting (powder bed): 10-53 µm
- Electron Beam Melting (powder bed): 45-106 µm
- Directed energy deposition (LMD): 45-106 µm
- Customized particle size distributions upon request

DENSITY FOR LBM

- Apparent density: 4.1 g/cm³ ±0.2
- Tap density: 5.0 g/cm³ ±0.2

Heat treatment recommended on part: AMS 5662

POWDER MORPHOLOGY

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

The above is for information only and does not create any binding contractual obligations.
Pearl® is a registered trademark of Erasteel and is used under license by Aubert & Duval.