**Höganäs**

**POWERS FOR THERMAL SPRAYING**  
Number PD-5094  
Issue 5-25.02.2019

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**AMPERIT® 421**

- **Chemical Formula**: MCrAlY
- **Chemical Name**: NiCoCrAlTaReY
- **Description of Product**: Gas Atomized
- **Particle Sizes Available**: Gas Atomized

**Product Designation**
- AMPERIT® 421.001 45/22 µm
- AMPERIT® 421.087 38/15 µm

**Chemical Characteristics**
(Mass fraction in % [cg/g]; ppm [µg/g])

<table>
<thead>
<tr>
<th>Element</th>
<th>Cr</th>
<th>Co</th>
<th>Al</th>
<th>Ta</th>
<th>Re</th>
<th>Y</th>
<th>Si</th>
<th>Hf</th>
<th>Ni</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass fraction (%)</td>
<td>17.0</td>
<td>9.0</td>
<td>6.25</td>
<td>5.75</td>
<td>1.8</td>
<td>0.2</td>
<td>0.8</td>
<td>0.4</td>
<td>remainder</td>
</tr>
<tr>
<td>ppm (µg/g)</td>
<td>19.0%</td>
<td>11.0%</td>
<td>6.75%</td>
<td>6.25%</td>
<td>2.2%</td>
<td>0.4%</td>
<td>1.2%</td>
<td>0.6%</td>
<td>remainder</td>
</tr>
</tbody>
</table>

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Particle Size Distribution</th>
<th>421.001</th>
<th>421.087</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 45 µm max. %</td>
<td>5 %</td>
<td>+ 38 µm max. %</td>
</tr>
<tr>
<td>- 22 µm max.</td>
<td>7 %</td>
<td>- 16 µm max.</td>
</tr>
<tr>
<td>- 10 µm max.</td>
<td>0 %</td>
<td>- 0 µm max.</td>
</tr>
</tbody>
</table>

1) MICROTRAC by Laser Light Diffraction per ASTM B 822, 2) ROTAP Screening per ASTM B 214.
Packaging

Standard Packaging:
5 kg in one 2.5 l PE bottle, 6 bottles (30 kg) in one cardboard box.

Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)

- Carcinogenicity Category 1B
- Carcinogenicity Category 2
- Eye irritation Category 2
- Reproductive toxicity Category 2
- Respiratory sensitisation Category 1
- Skin sensitisation Category 1
- Specific target organ toxicity – repeated exposure Category 1
- Short-term (acute) aquatic hazard Category 1
- Long-term (chronic) aquatic hazard Category 2.

Documentation

An inspection document in accordance with EN 10204 is supplied with every shipment.

Remarks

Always mix well before using.
Other grain sizes on request.

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