POWDER FOR THERMAL SPRAYING

AMPERIT® 543
PRELIMINARY SPECIFICATION (The product described is still under test. Amendments of all technical data are possible. Special care has to be taken while processing.)

Chemical Formula
WC-CrC-Ni 42-42-16

Chemical Name
Tungsten Carbide – Chromium Carbide - Nickel 42-42-16

Description of Product
Agglomerated, Sintered

Particle Sizes Available
Product Designation
AMPERIT® 543.074  45/15 µm

Chemical Characteristics 1)
(Mass fraction in % [cg/g]; ppm [µg/g])

<table>
<thead>
<tr>
<th>Element</th>
<th>543.074</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cr</td>
<td>34.0 - 39.0 %</td>
</tr>
<tr>
<td>Ni</td>
<td>14.5 - 17.5 %</td>
</tr>
<tr>
<td>C</td>
<td>7.5 - 8.5 %</td>
</tr>
<tr>
<td>Fe</td>
<td>max. 0.30 %</td>
</tr>
<tr>
<td>O</td>
<td>max. 0.20 %</td>
</tr>
<tr>
<td>W</td>
<td>balance</td>
</tr>
</tbody>
</table>

Physical Characteristics

Particle Size Distribution 1)

<table>
<thead>
<tr>
<th>Size</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 88 µm</td>
<td>100   %</td>
</tr>
<tr>
<td>D 90 %</td>
<td>48 - 60 µm</td>
</tr>
<tr>
<td>D 50 %</td>
<td>29 - 37 µm</td>
</tr>
<tr>
<td>D 10 %</td>
<td>17 - 22 µm</td>
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</tbody>
</table>

Apparent Density
2.5 - 3.5 g/cm³
acc. ASTM B 212

1) MICROTRAC by Laser Light Diffraction per ASTM C 1070.

1/2
Packaging
Standard Packaging
5 kg in one 2.5 l PE bottle, 6 bottles (30 kg) in one cardboard box.

Storage and Handling
Storage and handling are subject to the rules and regulations in the country of use.

Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)
- Carcinogenicity Category 2
- Specific target organ toxicity - repeated exposure Category 1
- Skin sensitization Category 1
- Chronic aquatic toxicity Category 3.

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

Remarks
Always mix well before using.