POWERS FOR THERMAL SPRAYING

AMPERIT® 526

Chemical Formula  WC-Co 83-17
Chemical Name Tungsten Carbide-Cobalt 83-17
Description of Product Agglomerated, Sintered

Grades Available

<table>
<thead>
<tr>
<th>Product Designation</th>
<th>526.077 63/32 µm</th>
<th>526.088 53/20 µm</th>
<th>526.062 53/10 µm</th>
<th>526.074 45/15 µm</th>
<th>526.059 30/5 µm</th>
</tr>
</thead>
</table>

Chemical Characteristics

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

Co  15.0 - 18.0 %
C   4.9 - 5.3 %
Fe  max. 0.20 %
W   balance

Physical Characteristics

<table>
<thead>
<tr>
<th>Particle Size Distribution</th>
<th>526.077</th>
<th>526.088</th>
<th>526.062</th>
<th>526.074</th>
<th>526.059</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 125 µm</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>99 %</td>
</tr>
<tr>
<td>- 88 µm</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>99 %</td>
</tr>
<tr>
<td>- 62 µm</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>99 %</td>
</tr>
<tr>
<td>- 44 µm</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>99 %</td>
</tr>
<tr>
<td>- 63 µm</td>
<td>max. 5 %</td>
<td>max. 5 %</td>
<td>max. 5 %</td>
<td>max. 5 %</td>
<td>max. 5 %</td>
</tr>
<tr>
<td>- 38 µm</td>
<td>max. 20%</td>
<td>max. 20%</td>
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<td>max. 20%</td>
</tr>
</tbody>
</table>

D  90 %<sup>1)</sup>  61 - 71 µm  51 - 59 µm  49 - 57 µm  25 - 33 µm
D  50 %<sup>1)</sup>  35 - 43 µm  31 - 37 µm  31 - 37 µm  15 - 21 µm
D  10 %<sup>1)</sup>  21 - 25 µm  17 - 22 µm  18 - 22 µm  9 - 13 µm

Apparent Density<sup>3,4</sup>

<table>
<thead>
<tr>
<th>ASTM B 212</th>
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<th>ASTM B 417</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.8 - 4.4 g/cm³</td>
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<td>3.8 - 4.4 g/cm³</td>
<td>4.2 - 4.8 g/cm³</td>
</tr>
</tbody>
</table>

1) MICROTRAC by Laser Light Diffraction per ASTM C 1070, 2) ROTAP Screening per ASTM B 214, 3) HALL FLOWMETER FUNNEL per ASTM B 212, 4) CARNEY FUNNEL per ASTM B 417.
SEM picture
scale see photograph

5) Secondary Electron Image (SEI)
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 1B
- Respiratory sensitisation Category 1
- Skin sensitisation Category 1
- Eye irritation Category 2
- Reproductive toxicity Category 2
- Acute aquatic toxicity Category 1
- Chronic aquatic toxicity Category 2

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

Remarks
Always mix well before using.

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