## Amperit® 529

### Chemical Formula
WC - NiMoCrFeCo 82-18

### Chemical Name
Tungsten Carbide - Hastelloy® C-276 (Ratio 82-18)

### Description of Product
Agglomerated, Sintered

### Grades Available
Product Designation
Amperit® 529.074 45/15 μm

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

<table>
<thead>
<tr>
<th>Element</th>
<th>Mass Fraction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ni</td>
<td>10.0 - 12.5 %</td>
</tr>
<tr>
<td>C</td>
<td>5.0 - 6.0 %</td>
</tr>
<tr>
<td>Mo</td>
<td>2.0 - 3.5 %</td>
</tr>
<tr>
<td>Cr</td>
<td>2.0 - 3.5 %</td>
</tr>
<tr>
<td>Fe</td>
<td>0.8 - 1.5 %</td>
</tr>
<tr>
<td>Co</td>
<td>max. 0.80 %</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

| D 90 % | 48 - 58 μm |
| D 50 % | 30 - 38 μm |
| D 10 % | 18 - 22 μm |

Apparent Density
3.8 - 4.6 g/cm³ acc. ASTM B 212

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Hastelloy® is a registered trademark of Haynes International Inc.

1) MICROTRAC by Laser Light Diffraction per ASTM C 1070.
SEM pictures 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)  
- Carcinogenicity, Category 1B and 2  
- Specific target organ toxicity – repeated exposure, Category 1  
- Skin sensitization, Category 1  
- Long-term (chronic) aquatic hazard, Category 3  

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

Remarks  
Always mix well before using.