AMPERIT® 471
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
CoCrAlYTaCSi-Al2O3 90-10

Description of Product
Agglomerated, sintered

Grades Available
Product Designation
AMPERIT® 471.074  45/15 µm
AMPERIT® 471.063  75/45 µm

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

<table>
<thead>
<tr>
<th>Element</th>
<th>Co</th>
<th>Cr</th>
<th>Ta</th>
<th>Al</th>
<th>Y</th>
<th>C</th>
<th>Si</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45.0 - 51.0 %</td>
<td>21.0 - 24.0 %</td>
<td>7.0 - 9.0 %</td>
<td>10.0 - 12.5 %</td>
<td>0.4 - 0.8 %</td>
<td>0.5 - 1.1 %</td>
<td>0.5 - 1.0 %</td>
<td>3.5 - 5.5 %</td>
</tr>
</tbody>
</table>

Physical Characteristics
Particle Size Distribution1)

<table>
<thead>
<tr>
<th>Grade</th>
<th>471.074</th>
<th></th>
<th>471.063</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>D 90 %</td>
<td>54 - 63 µm</td>
<td>80 - 95 µm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D 50 %</td>
<td>32 - 38 µm</td>
<td>57 - 68 µm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D 10 %</td>
<td>18 - 23 µm</td>
<td>38 - 48 µm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apparent Density</td>
<td>1.8 - 2.3 g/cm³</td>
<td>1.9 - 2.4 g/cm³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- Respiratory sensitization Category 1
- Skin sensitization Category 1
- Eye irritation Category 2
- Reproductive toxicity Category 2
- Acute aquatic toxicity Category 2
- Chronic aquatic toxicity Category 1.

Documentation

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