**AMPERIT® 538**

**Chemical Formula**  
WC-WB-Co 60-30-10

**Chemical Name**  
Tungsten Carbide-Tungsten Boride-Cobalt

**Description of Product**  
Agglomerated, Sintered

**Grades Available**  
Product Designation

| AMPERIT® 538 | 45/15 µm |

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

<table>
<thead>
<tr>
<th>Element</th>
<th>Mass Fraction</th>
<th>PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Co</td>
<td>9.0 - 11.0 %</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>1.0 - 2.0 %</td>
<td></td>
</tr>
<tr>
<td>Ctot</td>
<td>3.5 - 4.0 %</td>
<td></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>47 - 57 µm</td>
</tr>
<tr>
<td>D 50 %</td>
<td>29 - 35 µm</td>
</tr>
<tr>
<td>D 10 %</td>
<td>17 - 21 µm</td>
</tr>
</tbody>
</table>

**Apparent Density**  
acc. ASTM B 212  
4.1 - 4.7 g/cm³

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¹ MICROTRAC by Laser Light Diffraction per ASTM C 1070.
SEM pictures

**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 sensitisation Category 1
- Skin sensitisation Category 1
- Eye irritation Category 2
- Reproductive toxicity Category 2
- Carcinogenicity Category 1B
- Specific target organ toxicity – repeated exposure Category 2
- 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.

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