

## AMPERIT<sup>®</sup> 556

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

|                               |  |
|-------------------------------|--|
| <b>Chemical Formula</b>       | WC-Co-Cr 86-10-4                         |
| <b>Chemical Name</b>          | Tungsten Carbide-Cobalt-Chromium 86-10-4 |
| <b>Description of Product</b> | Agglomerated, Sintered                   |
| <b>Grades Available</b>       | <b>Product Designation</b>               |
|                               | AMPERIT <sup>®</sup> 556.074 45/15 µm    |
|                               | AMPERIT <sup>®</sup> 556.059 30/ 5 µm    |

### Chemical Characteristics

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

|    | <b>556.074</b> | <b>556.059</b> |
|----|----------------|----------------|
| Co | 9.0 - 11.0 %   | 8.5 - 11.0 %   |
| Cr | 3.0 - 5.0 %    | 3.0 - 5.0 %    |
| C  | 5.0 - 6.0 %    | 5.0 - 6.0 %    |
| Fe | max. 0.30 %    | max. 0.30 %    |
| O  | max. 0.20 %    | max. 0.20 %    |
| W  | balance        | balance        |

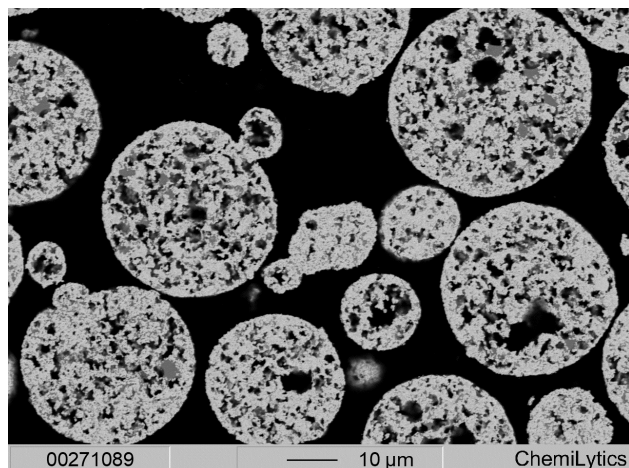
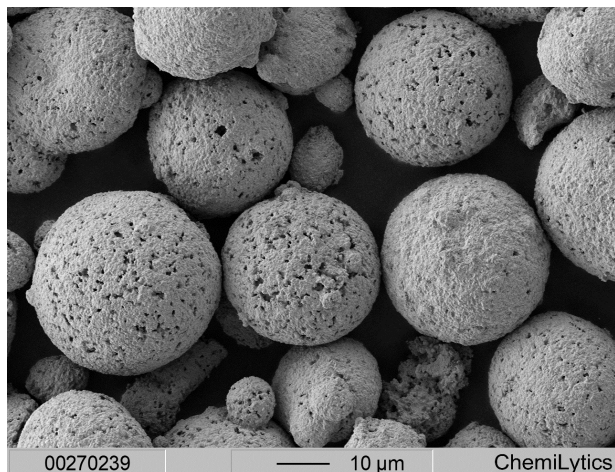
### Physical Characteristics

Particle Size Distribution<sup>1)</sup>

|                  |  |  |
|------------------|--|--|
| - 88 µm          | 100 %  | 100 %  |
| - 62 µm          |  | 99 %   |
| - 44 µm          |  |  |
| D 90 %           | 50 - 63 µm                                     | 26 - 34 µm                                     |
| D 50 %           | 30 - 38 µm                                     | 15 - 21 µm                                     |
| D 10 %           | 17 - 22 µm                                     | 8 - 13 µm                                      |
| Apparent Density | 4.4 - 5.5 g/cm <sup>3</sup><br>acc. ASTM B 212 | 4.4 - 5.5 g/cm <sup>3</sup><br>acc. ASTM B 417 |

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

## SEM pictures<sup>2)</sup>



## 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 sensitization Category 1  
Skin sensitization Category 1  
Eye irritation Category 2  
Reproductive toxicity 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.

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2) Secondary Electron Image (SEI).