

Amperit[®] 507

Chemical Formula	WC-Co-Cr 86-10-4
Chemical Name	Tungsten Carbide-Cobalt-Chromium 86-10-4
Description of Product	Agglomerated, Sintered
Particle Sizes Available	Product Designation
	Amperit [®] 507.074 45/15 µm
	Amperit [®] 507.059 30/ 5 µm

Chemical Characteristics

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

	507.074	507.059
Co	9.0 - 11.0 %	8.5- 11.0 %
Cr	3.5 - 5.0 %	3.5 - 5.0 %
Fe	max. 0.3 %	max. 0.3 %
C	5.2 - 6.2 %	5.2 - 6.2 %
O	max. 0.2 %	max. 0.2 %
W	balance	balance

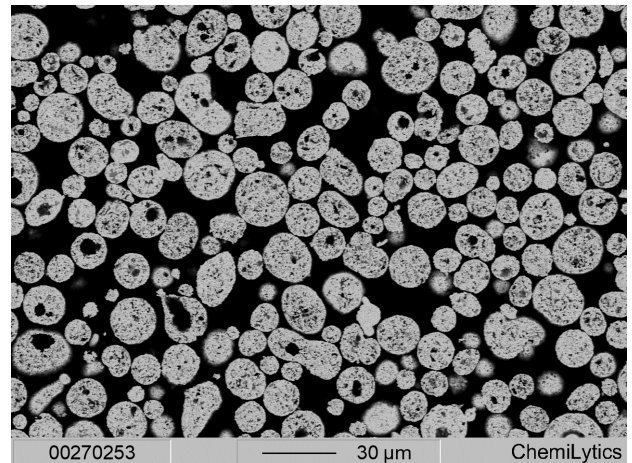
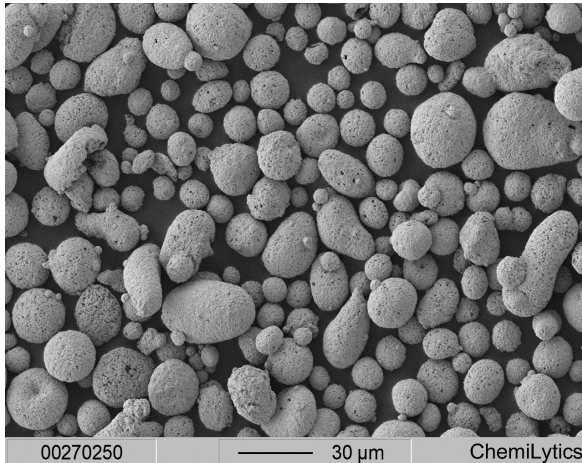
Physical Characteristics

Particle Size Distribution¹⁾

- 88 µm	100	%		
- 62 µm			100	%
- 44 µm			99	%
D 90 %	47 - 57	µm	25 - 33	µm
D 50 %	29 - 37	µm	15 - 21	µm
D 10 %	18 - 22	µm	9 - 13	µm
Apparent Density	5.0 - 6.0		5.0 - 6.0	g/cm ³
	acc. ASTM B 212		acc. ASTM B 417	

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

SEM pictures²⁾



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).