

AMPERIT[®] 560

Chemical Formula	WC-Co(83-17) / NiSF RC 60 50-50	
Chemical Name	Tungsten Carbide-Cobalt(83-17)-Nickel-SF RC 60 50-50	
Description of Product	Blended	
Grades Available	Product Designation	
	AMPERIT [®] 560.077	63/32 µm
	AMPERIT [®] 560.062	53/10 µm

Chemical Characteristics

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

	WC-Co 83-17		Ni-SF RC 60
Co	15.0 - 18.0 %	Cr	14.2 - 16.5 %
Fe	max. 0.2 %	Fe	3.5 - 4.5 %
C _{tot}	4.9 - 5.3 %	Si	4.0 - 4.8 %
W	balance	B	3.0 - 3.9 %
		C	0.6 - 1.0 %
		Ni	balance

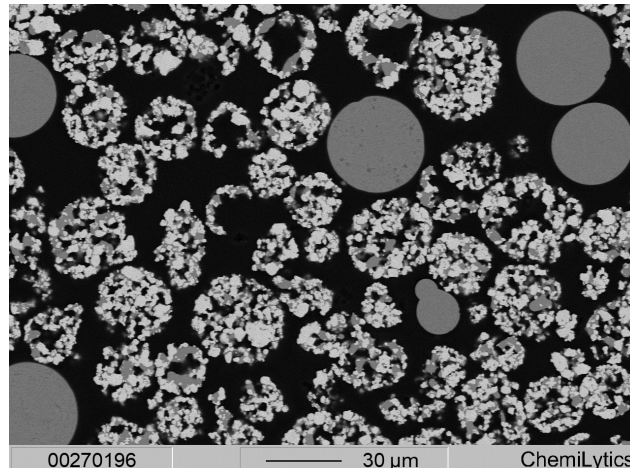
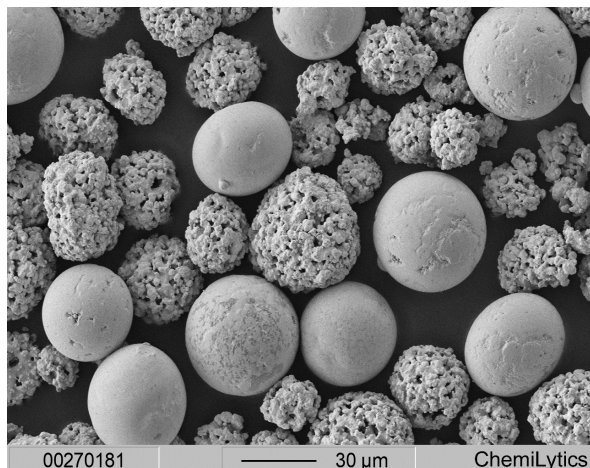
Physical Characteristics

Particle Size Distribution	WC-Co 83-17 for 63/32 µm	Ni-SF RC 60 for both grain sizes
+ 63 µm	max. 5 % ²⁾	max. 2 % ³⁾
+ 53 µm		max. 10 % ³⁾
- 38 µm	max. 20 % ²⁾	
- 32 µm		max. 12 % ³⁾
Apparent Density acc. ASTM B 212	3.8 - 4.4 g/cm ³	3.8 - 4.6 g/cm ³

Particle Size Distribution	WC-Co 83-17 for 53/10 µm
- 88 µm	max. 100 % ¹⁾
D 90 %	51 - 59 µm
D 50 %	31 - 37 µm
D 10 %	17 - 22 µm
Apparent Density acc. ASTM B 212	3.8 - 4.4 g/cm ³

1) MICROTRAC by Laser Light Diffraction per ASTM C 1070, 2) ROTAP Screening per ASTM B 214, 3) ALPINE Air Jet Screening.

SEM pictures⁴⁾



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
Carcinogenicity Category 2
Skin sensitization Category 1
Respiratory sensitization Category 1
Reproductive toxicity Category 2
Specific target organ toxicity – repeated exposure Category 1
Acute aquatic toxicity Category 1
Chronic aquatic toxicity Category 1
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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4) Secondary Electron Image (SEI)