

POWDERS FOR THERMAL SPRAYING

Number
Issue

PD-4113
1-29.01.2019

AMPERIT[®] 578

Chemical Formula	Cr ₃ C ₂ - NiCr 80-20
Chemical Name	Chromium Carbide - Nickel-Chromium 80-20
Description of Product	Agglomerated, Sintered
Particle Sizes Available	Product Designation
	AMPERIT [®] 578.074 45/15 µm
	AMPERIT [®] 578.059 30/ 5 µm

Chemical Characteristics

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

Ni	14.0 - 16.0	%
C _{tot}	9.0 - 10.5	%
Fe	max. 0.50	%
O	max. 0.60	%
Cr	balance	

Physical Characteristics

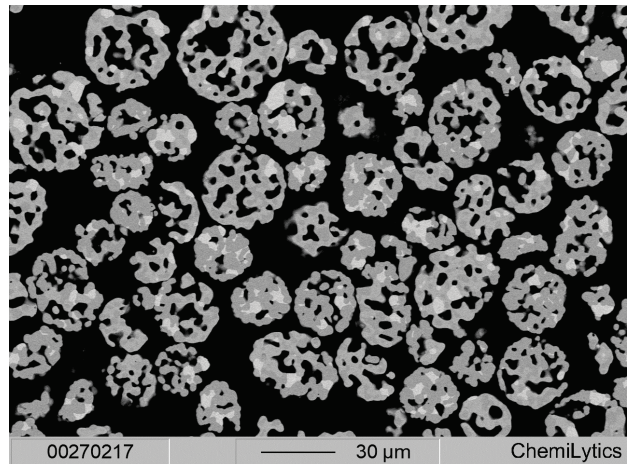
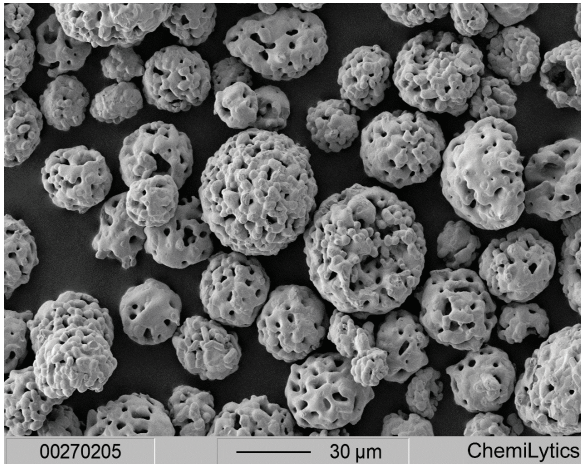
Particle Size Distribution¹⁾

	578.074		578.059	
- 88 µm	100	%	100	%
- 62 µm			min. 99.5	%
D 90 %	50 - 60	µm	27 - 37	µm
D 50 %	31 - 39	µm	17 - 23	µm
D 10 %	18 - 22	µm	9 - 13	µm
Apparent Density	2.2 - 3.0	g/cm ³	2.4 - 3.2	g/cm ³
	acc. ASTM B 417		acc. ASTM B 212	

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

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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 2 Specific target organ toxicity - repeated exposure Category 1 Skin sensitization Category 1
Documentation	An inspection document in accordance with EN 10204 is supplied with every shipment.
Remarks	Always mix well before using.

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2) Secondary Electron Image (SEI).