Höganäs

H.C.Starck Surface Technology and Ceramic Powders A part of the Höganäs Group

POWDERS FOR THERMAL SPRAYING

Number PD-4113
Issue 1-29.01.2019

AMPERIT® 578

Chemical Formula Cr_3C_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 Distribution[1)]

	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	µmm
Apparent Density	2.2	- 3.0	g/cm³	2.4	- 3.2	g/cm³
	acc. ASTM B 417			acc. ASTM B 212		

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

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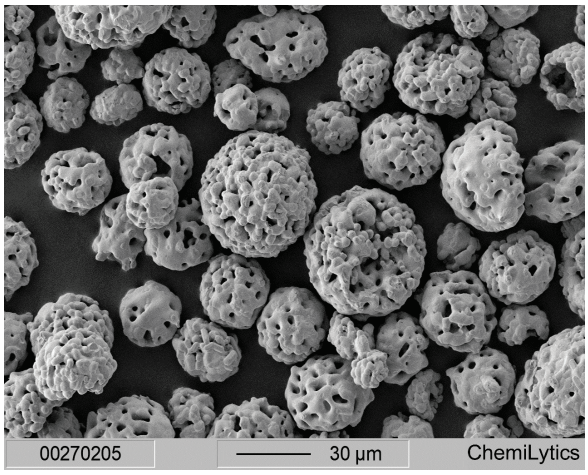
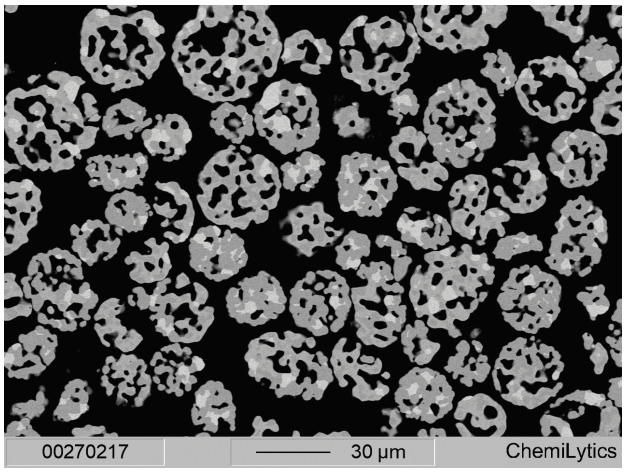
SEM pictures[2)]





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).