

AMPERIT[®] 421

Chemical Formula	MCrAlY
Chemical Name	NiCoCrAlTaReY
Description of Product	Gas Atomized
Particle Sizes Available	Product Designation
	AMPERIT [®] 421.001 45/22 µm
	AMPERIT [®] 421.087 38/15 µm

Chemical Characteristics

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

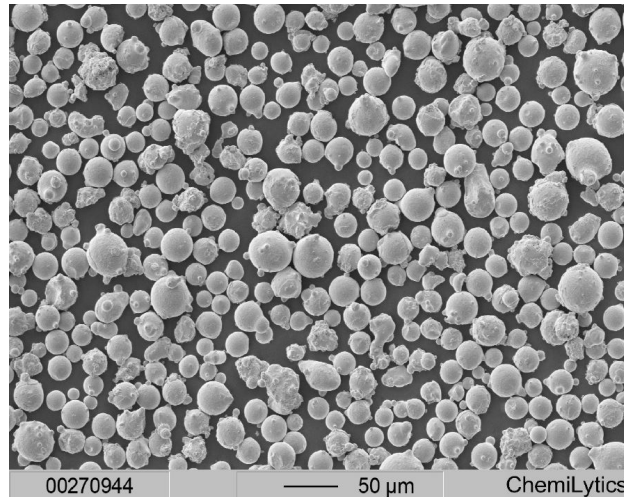
Cr	17.0	-	19.0	%
Co	9.0	-	11.0	%
Al	6.25	-	6.75	%
Ta	5.75	-	6.25	%
Re	1.8	-	2.2	%
Y	0.2	-	0.4	%
Si	0.8	-	1.2	%
Hf	0.4	-	0.6	%
Ni	remainder			

Physical Characteristics

Particle Size Distribution	421.001			421.087
	+ 45 µm max	5	% ²⁾	+ 38 µm max. 5 % ²⁾
	- 22 µm max.	7	% ¹⁾	- 16 µm max. 7 % ¹⁾
	- 10 µm max	0	% ¹⁾	

1) MICROTRAC by Laser Light Diffraction per ASTM B 822, 2) ROTAP Screening per ASTM B 214.

SEM pictures³⁾



Packaging

Standard Packaging:
5 kg in one 2.5 l PE bottle, 6 bottles (30 kg) in one cardboard box.

Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)

Carcinogenicity Category 1B
Carcinogenicity Category 2
Eye irritation Category 2
Reproductive toxicity Category 2
Respiratory sensitisation Category 1
Skin sensitisation Category 1
Specific target organ toxicity – repeated exposure 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.
Other grain sizes on request.

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