

AMPERIT[®] 405

Chemical Formula	NiCoCrAlHfYSi
Description of Product	Gas Atomized
Grades Available	Product Designation
	AMPERIT [®] 405.001 45/22 µm
	AMPERIT [®] 405.002 90/45 µm
	AMPERIT [®] 405.006 125/45 µm
	AMPERIT [®] 405.072 38/10 µm

Chemical Characteristics

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

Co	21.0 - 23.0	%
Cr	16.0 - 18.0	%
Al	11.8 - 13.2	%
Y	0.4 - 0.8	%
Hf	0.1 - 0.3	%
Si	0.2 - 0.6	%
All others, each ³⁾	max. 0.1	%
Ni	balance	

Physical Characteristics

(Grain Size Distribution and Tolerances above / below max. in %)

Particle Size Distribution	405.001	405.002	405.006
+ 125 µm			max. 7 % ¹⁾
+ 90 µm		max. 7 % ¹⁾	
+ 45 µm	max. 7 % ¹⁾		
- 45 µm		max. 13 % ¹⁾	max. 13 % ¹⁾
- 22 µm	max. 15 % ²⁾		
	405.072		
+ 38 µm	max. 7 % ¹⁾		
- 10 µm	max. 13 % ²⁾		

1) ROTAP Screening per ASTM B 214, 2) MICROTRAC by Laser Light Diffraction per ASTM C 1070, 3) measured by XRF.

Packaging	Standard Packaging: 5 kg in 2.5 l PE bottle.
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 Respiratory sensitization Category 1 Skin sensitization Category 1 Reproductive toxicity Category 2 Eye irritation Category 2 Acute aquatic toxicity Category 1 Chronic aquatic toxicity Category 1
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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