

POWDERS FOR POWDER METALLURGY

Number PD-5259
Issue 1-21.12.2015

AMPERSINT® 0711.01 FeCrNiCuNb 17-4PH

Chemical Formula	FeCrNiCuNb
Chemical Name	FeCrNiCuNb
Description of Product	Gas Atomized
Grades Available	Product Designation 0711.01 FeCrNiCuNb 17-4PH 38/5µm 0711.01 FeCrNiCuNb 17-4PH 45/15µm 0711.01 FeCrNiCuNb 17-4PH 53/10µm 0711.01 FeCrNiCuNb 17-4PH -22 µm

Chemical Characteristics

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

C	<=	0.07	%
Si	<=	1.00	%
Mn	<=	1.00	%
P	<=	0.040	%
S	<=	0.030	%
Cr	15.0 -	17.5	%
Ni	3.00 -	5.00	%
Cu	3.00 -	5.00	%
Nb+Ta	0.15 -	0.45	%
Fe	balance		

Physical Characteristics

Particle Size Distribution

38/5 µm

+ 38 µm	max.	7	% ¹⁾
- 5 µm	max.	3	% ²⁾

45/15 µm

+ 45 µm	max.	7	% ¹⁾
- 15 µm	max.	3	% ²⁾

53/10 µm

+ 53 µm	max.	5	% ¹⁾
- 10 µm	max.	3	% ²⁾

-22 µm

D90 %	max.	22	µm ²⁾
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1) ROTAP Screening per ASTM B 214, 2) MICROTRAC by Laser Light Diffraction per ASTM C 1070.

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Packaging	Standard Packaging: 50 kg in 18 l steel drum with PE-inliner
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 2 Skin sensitisation 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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