

AMPERIT[®] 407 Ni Superalloy 718

Chemical Formula	NiCrNbMoTiAl	
Description of Product	Gas Atomized	
Grades Available	Product Designation	
	AMPERIT [®] 407.002	90/45 µm
	AMPERIT [®] 407.088	53/20 µm
	AMPERIT [®] 407.065	30/10 µm

Chemical Characteristics

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

Ni	50.0 - 55.0 %	Mn	max.	0.35 %
Cr	17.0 - 21.0 %	Si	max.	0.35 %
Nb	4.75 - 5.5 %	C	max.	0.08 %
Mo	2.8 - 3.3 %	B	max.	0.006 %
Ti	0.65 - 1.15 %			
Al	0.4 - 0.8 %			
Fe	balance			

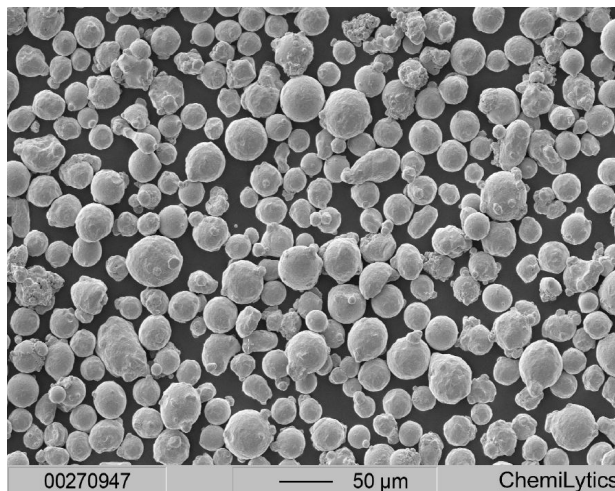
Physical Characteristics

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

Particel Size Distribution	407.002			407.088		
+ 90 µm	max.	5	% ¹⁾			
+ 53 µm				max.	5	% ¹⁾
- 45 µm	max.	10	% ¹⁾			
- 20 µm				max.	7	% ²⁾
- 10 µm				max	0	% ²⁾
				407.065		
D 10 %	min.	10	µm ²⁾			
D 90 %	max.	30	µm ²⁾			

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

SEM pictures³⁾



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
Long-term (chronic) aquatic hazard Category 3.

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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