

forAM® ADMUSTER™ C21p 15-63 VG

Corrosion resistant nickel powder for laser powder bed fusion

forAM ADMUSTER C21p is a highly corrosion-resistant Ni-Cr-Mo alloy powder developed for additive manufacturing. Exceptional corrosion resistance enables reliable components for demanding environments. Typical applications are found in semiconductor manufacturing, chemical and pharmaceutical processing, and the oil & gas industry.

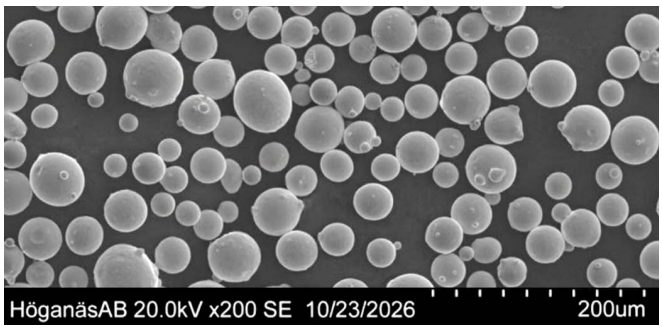
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Equivalent materials:

- MAT21®
- UNS N06210

Powder properties

Chemical composition, (typical values)	
Element	**Content, %**
Cr	19
Mo	19
Ni	Balance
Ta	1.8



Typical powder properties		
Nominal particle range	15-63 µm (max 5% over and under size)	MPIF05, ASTM B214, ISO4497
Hall flow	16 s/50 g	MPIF03, ASTM B213, ISO4490
Apparent density	4.0 g/cm³	MPIF04, ASTM B212, ISO3923/1

Corrosion resitance			
	C21p (as printed)	C21p (SA)	C22 (Wrought)
1% HCl boiling	0.01	–	0.13
2% HCl boiling	0.01	0.01	1.72
5% HCl boiling	1.6	–	7.95
30% HF boiling	0.06	–	–
10% H_2SO_4 boiling	0.03	0.03	0.23

(mm / year, test duration is 24h)

	PREN
C21P	82
C22	70
C276	75
316L	26
SAF 2507	43

PREN = Cr + 3.3 (Mo + W/2) +16N

Mechanical properties

Surface condition is machined		
Heat treatment	As printed	SA (1)
Printed in Z-direction – Build direction		
UTS (MPa)	885	890
YS (MPa)	620	415
Elongation (%)	60	76

Heat treatment	As printed	SA (1)
Printed in X/Y-direction – Perpendicular		
UTS (MPa)	1 030	905
YS (MPa)	760	425
Elongation (%)	42	72
IE notch in Z direction (J)	103	–
Hardness (HV10)	323	209

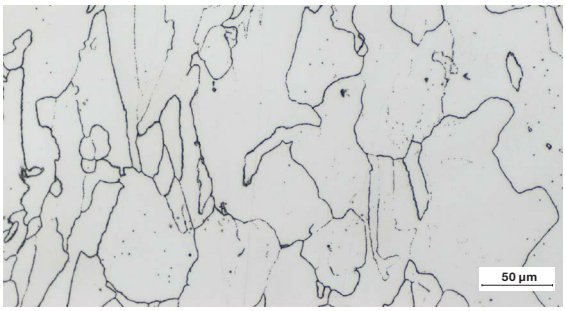
(1) SA – Solution Annealed at 1200°C in Ar for 30 minutes followed by air cooling.



Non etched



Solution Annealed - Build Direction



As Printed – Build Direction

Standard packaging:

20 kg (4x5 kg, 1 L PE bottles, packed in cardboard box)
200 kg / 500 kg Flexbag
(Other tailored particle sizes and packaging are available under conditions)

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