

forAM® N07208

Advanced nickel superalloy for Additive Manufacturing

forAM N07208 is a vacuum induction melted, argon gas atomized, and spherical powder for additive manufacturing. The alloy is a gamma-prime strengthened nickel-chromium-cobalt superalloy for high temperature applications and shows a good balance of creep strength up to 930 °C, thermal stability, weldability and fabricability.

Some typical applications of the alloy are the combustors, turbines and nozzle components of gas turbines or turbocharger parts for automotive.

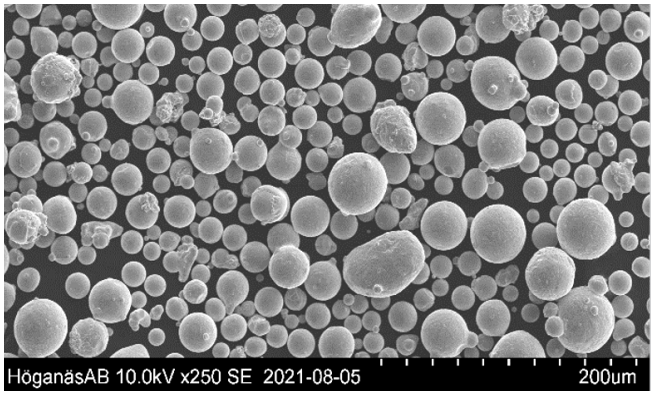
Equivalent materials:

- UNS N07208
- AMS5951 (chemical composition)

Scan the QR code for more information about the forAM product line and other Höganäs products.

Powder properties

Chemical composition, (typical values)	
Element	**Content, %**
Cr	19.5
Co	10
Mo	8.5
Ti	2.1
Al	1.5
C	0.05
Ni	Balance



Typical powder properties		
Nominal particle range	15-45 µm (max 5% over and under size)	MPIF05, ASTM B214, ISO4497
Hall flow	15 s/50 g	MPIF03, ASTM B213, ISO4490
Apparent density	4.6 g/cm^3	MPIF04, ASTM B212, ISO3923/1

Mechanical properties

Surface condition is machined		
Heat treatment	**As printed** (1)	**Heat treated** (2)
Printed in Z-direction – Build direction		
UTS (MPa)	870	1 110
YS (MPa)	580	775
Elongation (%)	44	32

Heat treatment	As printed (1)	Heat treated (2)
Printed in X/Y-direction – Perpendicular		
UTS (MPa)	950	1 205
YS (MPa)	670	820
Elongation (%)	35	25
Hardness (HV10)	310	380

(1) No Heat Treatment
(2) Solutionizing at 1,135 °C, Quenched at >110 °C/min to room temperature
Aged at 1,010 °C for 2 h in Ar + 788 °C for 8 h in Ar

Standard packaging:

30 kg (6x5 kg, 2.5 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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