Nickel Alloy 718

IN718 · GH4169

Precipitation-hardenable nickel alloy powder for high-temperature structures, turbines, and energy hardware.

Designations: Alloy 718 · IN718 · UNS N07718 · GH4169

Supply

Item	Value
Particle-size cuts	15–45 µm · 15–53 µm · 45–106 µm
Processes	LPBF · DED
Minimum pack	1 kg (paid samples)
Packaging	Aluminium-foil bag · 1 kg sealed pack · Drum
Documents	Lot-specific COA · Particle-size report · Safety data sheet · Chemistry report
List price	US$44–90/kg, EXW China

Our list price for LPBF cuts (15–45 µm or 15–53 µm), per kg, EXW China, from 1 kg. It is set at 80–90% of the public list prices of mainstream suppliers checked in October 2026. Other particle-size cuts are priced by agreement; packing and freight are quoted separately. Your written quotation from our official corporate email confirms the price, lead time and terms for your quantity, particle size and documents.

Chemical composition, wt.%

Element	Limit
Ni	50.0–55.0
Cr	17.0–21.0
Fe	Balance
Nb	4.75–5.50
Mo	2.80–3.30
Ti	0.65–1.15
Al	0.20–0.80
Co	≤1.0
C	≤0.08
Mn	≤0.35
Si	≤0.35
O	≤0.02
N	≤0.02

Typical partner-plant datasheet limits for 718-type (GH4169) powder, wt.%. The quoted lot COA governs.

Powder properties · LPBF screening window

Property	Value	Note
D10	≥15 μm	
D50	30–40 μm	
D90	≤60 μm	
Sphericity	≥0.90	Method to be confirmed
Apparent density	≥4.4 g/cm³	
Tap density	≥5.0 g/cm³	
Flow	≤18 s/50 g	Method and conditioning to be confirmed

An Alloy 718 screening basis; final chemistry, PSD, and test methods are production- and lot-specific.

Typical mechanical properties

Condition	Temperature	Tensile	Yield	Elongation	Note
Solution + aged	Room temperature	≥1300 MPa	≥1100 MPa	≥15%	
Solution + aged	650 °C	≥1000 MPa	≥900 MPa	≥12%	
Stress rupture	650 °C / 690 MPa	≥30 h life	—	≥5%	

Partner-plant datasheet values for LPBF test bars at room temperature unless stated. Printed-part properties depend on machine, parameters, orientation, and post-processing.

Typical values, not a lot certificate. The certificate of analysis for the quoted lot governs. Formal quotations and commercial terms are valid only when issued from our official corporate email.

Request a quote: https://metal3dpowder.com/rfq/?product=in718 · Grade page: https://metal3dpowder.com/products/in718/
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