Nickel Alloy 230

Alloy 230 · GH3230

Ni-Cr-W solid-solution alloy powder for combustors, transition ducts, and furnace parts that need long-term oxidation resistance.

Designations: Alloy 230 · UNS N06230 · GH3230

Supply

Item	Value
Particle-size cuts	15–45 µm · 15–53 µm
Processes	LPBF
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	Price on request

Chemical composition, wt.%

Element	Limit
Ni	Balance
Cr	20.0–24.0
W	13.0–15.0
Mo	1.0–3.0
Co	≤5.0
Fe	≤3.0
Al	0.2–0.5
Si	0.25–0.75
Mn	0.30–1.0
La	0.005–0.05
C	0.05–0.15
B	≤0.015
O	≤0.02
N	≤0.02

Typical partner-plant datasheet limits, 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

A partner-plant datasheet screening basis for this grade; the delivered lot COA remains controlling.

Typical mechanical properties

Condition	Temperature	Tensile	Yield	Elongation	Note
Heat treated	Room temperature	≥800 MPa	≥400 MPa	≥30%	
Heat treated	900 °C	≥230 MPa	≥180 MPa	≥30%	

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=alloy-230 · Grade page: https://metal3dpowder.com/products/alloy-230/
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