Aluminum AlSi10Mg

AlSi10Mg

Lightweight aluminum powder for housings, brackets, thermal structures, and transportation hardware.

Designations: AlSi10Mg · Aluminum-silicon-magnesium

Supply

Item	Value
Particle-size cuts	20–63 µm · 15–53 µm · 45–106 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	US$18–74/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
Al	Balance
Si	9.0–11.0
Mg	0.25–0.45
Fe	≤0.55
Mn	≤0.45
Zn	≤0.10
Ni	≤0.05
O	≤0.08

Typical partner-plant datasheet limits, wt.%. The quoted lot COA governs.

Powder properties · LPBF screening window

Property	Value	Note
D10	≥15 μm	
D50	30–45 μm	
D90	≤70 μm	
Sphericity	≥0.90	Method to be confirmed
Apparent density	≥1.35 g/cm³	
Tap density	≥1.6 g/cm³	

An AlSi10Mg screening basis; moisture, sampling, and safe handling affect usable results.

Typical mechanical properties

Condition	Temperature	Tensile	Yield	Elongation	Note
Heat treated	Room temperature	≥280 MPa	≥180 MPa	≥10%	

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.

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