



ADDIPOWDER

Advanced Powders for Next-
Generation Manufacturing

MATERIAL DATA SHEET

High-Performance 316L Stainless Steel Powder

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MATERIAL DATA SHEET

316L

MATERIAL

AddiPowder's 316L stainless steel powder is engineered for consistent performance in additive manufacturing, powder metallurgy, and metal injection molding. It offers excellent corrosion resistance, ductility, and weldability, making it ideal for critical parts in medical, energy, and industrial applications.

CHEMICAL COMPOSITION (wt%)

Fe	C	Cr	Ni	Mo	Si	Mn	S	P	O
Bal	≤0.03	16.00-18.00	10.00-14.00	2.00-3.00	≤1.00	≤2.00	≤0.03	≤0.045	≤0.08

PHYSICAL PROPERTIES

Particle Size	15–53 μm
Size distribution	D10: ≥15 μm, D50: 30-40 μm, D90: ≤60 μm
Hall Flow Rate	≤25 s / 50 g
Bulk Density	≥4.0 g/cm ³
Tap Density	≥4.4 g/cm ³

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MECHANICAL PROPERTIES

Hardness (HRC)	13–15
Tensile Strength (σ_b /MPa)	≥ 650
Yield Strength ($\sigma_{p0.2}$ /MPa)	≥ 550
Elongation at break (δ_5 /%)	≥ 45

HEAT TREATMENT RECOMMENDATION

1050°C / 2h / WQ

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