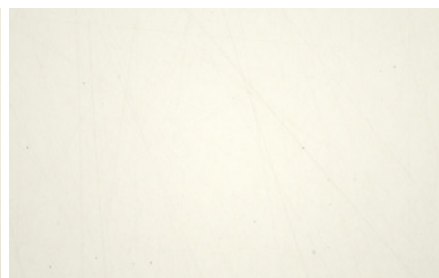
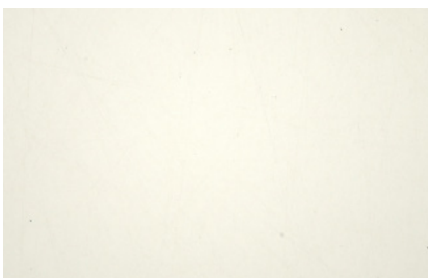
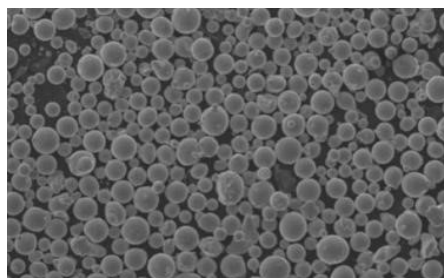


MT-316L Stainless steel

[Corrosion and pitting resistance, excellent work hardening performance]

Material Introduction

The standard grade of 316L is 022Cr17Ni12Mo2, which mainly contains Cr, Ni, and Mo. It has excellent corrosion resistance, especially pitting resistance, and excellent work hardening performance.



Applications

It is suitable for the manufacturing of aerospace fields, such as pressure vessels or fluid containers, exhaust pipelines, storage tanks, etc.



Topology-Optimized Robot Bracket

Chemical Composition (wt.%)

Fe	C	Si	Mn	Cr	Ni	Mo
Bal.	≤0.03	≤1.0	≤2.0	16.0–18.0	10.0–14.0	2–3
P	S	O	N	/	/	/
≤0.02	≤0.02	≤0.08	≤0.15	/	/	/

Physical Property

Granularity(μm)			Sphericity	Loose density (g/cm ³)	Tap density (g/cm ³)	Flowability (s/50g)
D10	D50	D90				
≥15	30–40	≤60	≥0.9	≥4.0	≥4.5	≤20

Parameters

Laser power(W)	Laser speed(mm/s)	Scanning spacing(mm)	Layer thickness (mm)
300	900	0.08	0.04



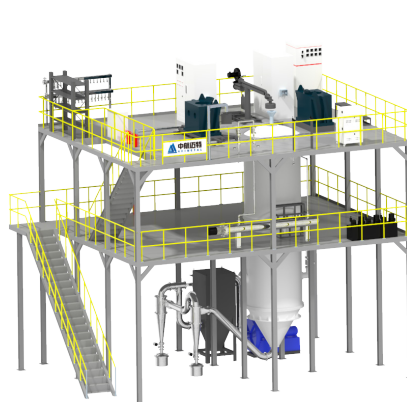
Mechanical Property

Condition	Tensile Strength/MPa	Yield Strength/MPa	Elongation/%
As-Deposited	≥580	≥480	≥40.0
Heat-Treated	≥600	≥380	≥40.0

Advanced Powder Metallurgy Technology



The powder metallurgy technology and equipment production line—
Vacuum Induction Gas Atomization (AVI-VIGA)



The powder metallurgy technology and equipment production line—
Non-Vacuum Gas Atomization (AVI-GA)

Adapting Devices

10+ proprietary LPBF equipment systems supporting build sizes from 100 mm to 1500 mm.



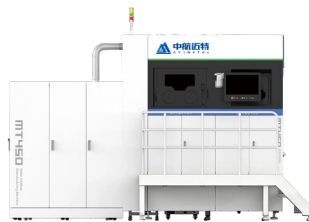
MT170H



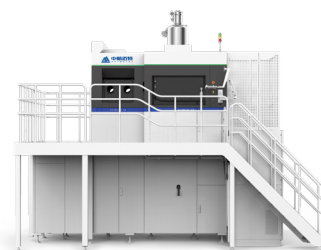
MT280



MT400M



MT450



MT650

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