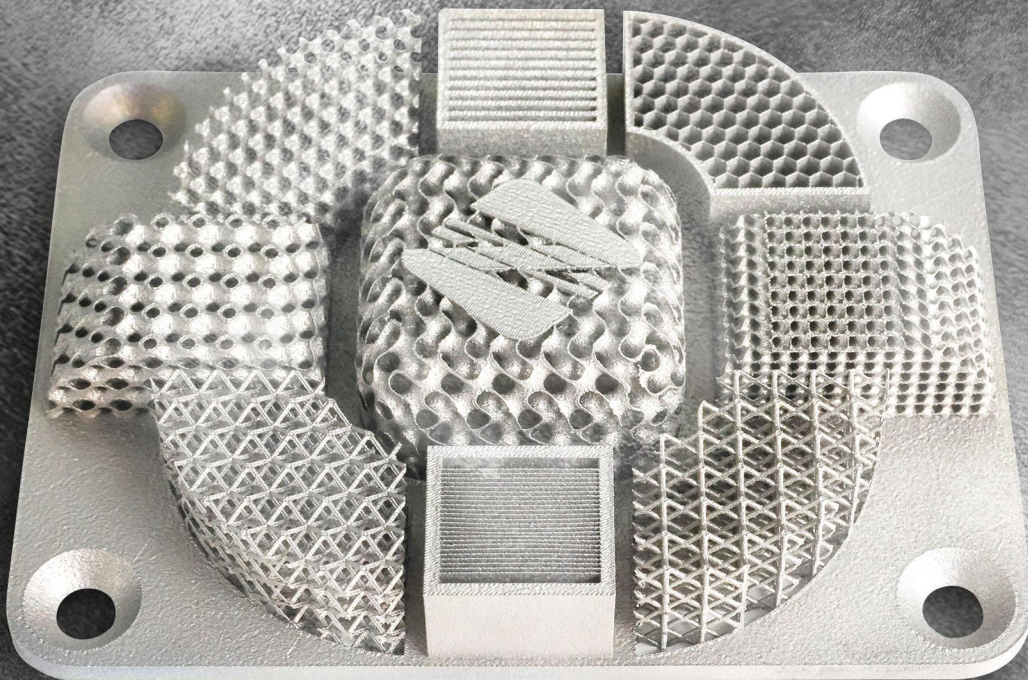


Ti-6Al-4V



Overview

Ti-6Al-4V is the most widely used titanium alloy powder for additive manufacturing, valued for its exceptional strength-to-weight ratio, excellent corrosion resistance, and good bio-compatibility, making it a benchmark material for high-performance applications in aerospace, biomedical, and automotive fields.

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Highly Reflective Metals | Refractory Metals | Common Metals

Highlights

- High strength-to-weight ratio
- Excellent corrosion resistance
- Good bio-compatibility

MATERIAL PARAMETERS

Particle Size	Flowability	Bulk Density	Oxygen Content
15-53μm	≤ 35s	≥2.4g/cm ³	≤900ppm

CHEMICAL COMPOSITION IN WT%

Item	Specification	
Essential Elements (wt%)	Ti	Balance
	Al	5.5-6.7%
	V	3.5-4.5%
Impurities(wt%)	Fe	≤0.003
	C	≤0.0008
	H	≤0.0015
	O	≤0.0012
	Other	≤0.004



MECHANICAL PROPERTIES

Density	Tensile Strength	Yield Strength	Elongation
99.8%	1150±50MPa	<u>1100±50MPa</u>	<u>15±2%</u>

Typical Applications

-  Automotive
-  Aerospace components
-  Implant



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