

Titanium Alloy Powder

A titanium alloy powder for dental Selective Laser Melting (SLM). It features high sphericity, uniform composition, excellent flowability, and high purity with reliable batch consistency. Restorations built with this material offer high strength, minimal deformation, superior biocompatibility, and corrosion resistance for long-term oral use. Patients benefit from low thermal conductivity and minimal foreign body sensation, ensuring comfort and making it an ideal choice for dental applications.

Applications:

Copings, Bridges, Crowns, Inlays, Post/Core, RPD Frameworks, Clasps, Complete Denture Bases.



Sample Display:



Finished Product's Features:

- Outstanding Biocompatibility
- High Sphericity
- High Homogeneousness
- Strong Liquidity
- Stable Batch
- High Purity

Main Chemical Composition:

Main Elements (wt%)				
Ti	Al	V	Fe	O
Bal.	5.5-6.5	3.5-4.5	0.15-0.25	≤0.13
N	Cd	Be	Ni	
≤0.03	≤0.02	≤0.02	≤0.1	

Basic Parameters:

Apparent Density	Tap Density	Hall flow rate
≥2.2g/cm ³	≥2.5g/cm ³	≤50s/50g

Particle Size Distribution:

D10	D90
12-25μm	45-60μm