

DIRECT METAL LASER SINTERING

TITANIUM (Ti-6Al-4V) PRODUCT SPECIFICATIONS



PRODUCT DESCRIPTION

Titanium is one of the materials that Protolabs uses in its metal 3D printing process—direct metal laser sintering (DMLS). Also known as Ti 6-4, titanium is a workhorse alloy containing 6% aluminum and 4% vanadium.

APPLICATIONS

Due to its light weight, high strength, and excellent high temperature and corrosion resistance, titanium is often used for aerospace applications. Protolabs uses a high-grade Ti 6-4, making it an excellent choice for medical applications as well.

KEY PRODUCT BENEFITS

- Lightweight
- High Strength
- Excellent High Temperature and Corrosion Resistance

PROPERTIES:

Standard	Ultimate Tensile Strength (ksi)	0.2% Yield (ksi)	Elongation (%)	Hardness (HRC)
ASTM F2924-14	172	164	10	40