

DIRECT METAL LASER SINTERING

Titanium (Ti-6Al-4V)

Product Specifications

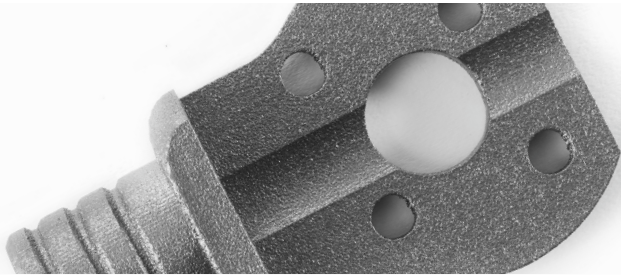


Product Description

Titanium (Ti6Al4V) is a workhorse alloy. The mechanical properties of Ti6Al4V are comparable to wrought titanium for tensile strength, elongation, and hardness. Final parts built in Ti6Al4V receive vacuum stress relief application.

Applications

Due to its light weight, high strength, and high temperature and corrosion resistance, titanium is often used for aerospace applications. This alloy is commonly used in a variety of medical applications which require high strength.



Key Product Benefits

- ▶ High stiffness and strength relative to weight
- ▶ High temperature and corrosion resistance

Properties

Resolution	Condition	Ultimate Tensile Strength (ksi)	Yield Stress (ksi)	Elongation (%)	Hardness
20 µm	Stress Relieved	153	138	15	35 HRC
30 µm	Stress Relieved	144	124	18	33 HRC