

Ti6Al4V

Metal | SLM

Grade 5 titanium — steel-like strength at about half the weight, heat-treated.

Grade 5 titanium: roughly steel-level strength (about 980 MPa tensile) at close to half the weight, with excellent corrosion resistance and good biocompatibility. It is the material of choice for weight-critical aerospace, motorsport and medical parts. Heat treatment is included.

Mechanical properties

Density	4.39 g/cm ³
Hardness	340 HV
Surface roughness Ra	20 µm
Surface roughness Rz	80 µm
Yield strength	900 MPa
Elastic modulus	110 GPa
Tensile strength	980 MPa
Elongation at break	14%

Typical applications

- Aerospace brackets
- Motorsport suspension parts
- Exhaust components
- Implant and instrument prototypes
- Drone and bike parts
- Lightweight engine parts

Maximum part size

350 × 400 × 360mm (larger parts can be split and joined)

Available finishes

E-coated · Glass-bead blasted · Mirror polished · Polished · Powder coated · Sandblasted · Screen printed · Spray painted, gloss · Spray painted, matte · Spray painted, soft-touch · Tapped threads · Tumbled · Welded

Values are indicative and depend on part geometry, build orientation and post-processing. For project-specific requirements contact info@3dexperts.me. Instant price: 3dexperts.me/quote