

Ti-6Al-4V ELI Forgings

Oxygen Content: $\leq 0.13\%$ (ELI)

Biocompatibility: Excellent

Supply Forms: Titanium Rings, Discs, Blocks, and Rods

Dimensions: Customizable according to customer drawings or specifications

Production Lead Time: 2-4 Weeks

Are you sourcing high-performance Ti-6Al-4V ELI forgings for medical implants, dental equipment, or other high-end applications? At Baoji Zecheng Metal Materials Co., Ltd., we provide ASTM F136-compliant titanium forgings that deliver reliability, biocompatibility, and exceptional toughness. Our ELI titanium alloy forging is a refined version of standard Ti-6Al-4V, carefully manufactured from premium ingots with strict control over oxygen and other interstitial elements.

Key Benefits of Ti-6Al-4V ELI Titanium Forgings

- Medical-Grade Biocompatibility: Safe for human implants and dental devices
- Exceptional Fracture Toughness: Performs reliably under high stress and low temperatures
- Superior Corrosion Resistance: Ensures long-term durability for critical applications
- Full Material Traceability: Every batch comes with certificates and test reports

By choosing our medical grade titanium forgings, you ensure that your projects meet the highest international standards.

Chemical Composition	Ti: balance, C: max0.08%, Al: 5.5-6.50, V: 3.5-4.50, Fe: max0.25% O: max0.13%, N: max0.05%, H: max0.012%
Mechanical Properties	Tensile Strength: min825-860Mpa, Yield Strength(0.2% Offset): min760-795Mpa Elongation in 4D: min,8-10%, Reduction of Area,min15-25 %
Standard Shapes & Sizes	Forged Bars: Round, square, rectangular – Dia: $\phi 10 - \phi 300$ mm; Length: up to 6,000 mm
	Plates: Thickness: 5–150 mm; Width: 200–1,500 mm; Length: 500–6,000 mm

	Discs/Blanks: Dia: $\phi 50$ – $\phi 1,500$ mm; Thickness: 10–300 mm
	Rings: Inner Diameter: $\phi 50$ – $\phi 1,200$ mm; Outer Diameter: $\phi 100$ – $\phi 1,500$ mm; Thickness: 10 – 200 mm
	Custom Forgings: Manufactured to your drawings or molds
MOQ	Flexible, depending on part geometry
Packaging	Sealed + wooden box for safe international shipping
Documentation	Compliance certificate, chemical & mechanical test reports, UT report, and material certificate
Delivery	Annealed (standard)
Condition	Solution Treated + Aged (optional for higher strength)

Why choose Our ELI titanium alloy forgings ?

When you choose Baoji Zecheng, you gain:

- Custom sizes, shapes, and surface treatments tailored to your design
- Full material traceability for peace of mind
- Expertise in high-performance Ti-6Al-4V ELI titanium forgings for medical, dental, and aerospace sectors

Get Your Quote Today: Ensure your project receives the highest-quality titanium forgings. Contact us now to discuss your custom titanium forging requirements.