ASTM F136 Titanium Forging

Shape: Round forgings, square forgings, irregular-shaped forgings (customization supported)

Shipping Time:

In-stock products: Shipped within 3-7 business days

Custom forgings: Production cycle is generally 2-4 weeks

Payment Method:

T/T (Telegraphic Transfer): 30% down payment, 70% paid before shipment

Export Packaging:

Inner packaging: Moisture-proof plastic bags or vacuum packaging

Outer packaging: Wooden crates with structural reinforcement, suitable for sea and air transport

ASTM F136 is applicable to the requirements for chemical composition, mechanical properties and metallurgical quality of wrought annealed Ti-6Al-4V ELI (extra low interstitial) alloy for surgical implants

ASTM F136 ELI titanium forgings are medical-grade titanium alloy forgings manufactured according to the American Society for Testing and Materials (ASTM) standard F136. This product has excellent biocompatibility, high strength, and low density, and is widely used in implantable medical devices, dental equipment, orthopedic equipment, and other fields.

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ASTM F136 Titanium Forging Technical Specifications

1. Material composition: main component is Ti-6Al-4V ELI (Extra Low Interstitials)
2. Density: about 4.51 g/cm^3
3. Diameter: 4-300mm and can also be customized
4. Heat treatment status: Heat treatment possible via stress relief annealing, solution treatment and aging treatment
5. Surface treatment: anodizing, pickling, sandblasting, machining

产品检测报告

ASTM F136 Chemical Composition Requirements (wt%)

Elements	composition%
N (max)	0.05
C (max)	0.08
H (max)	0.012
Fe (max)	0.25
O (max)	0.13
Al	5.5-6.50
V	3.5-4.5
Ti	balance

ASTM F136 Mechanical Properties

Nominal Diameter or Distance Between Parallel Sides, in. (mm)	Tensile Strength min, psi (MPa)	Yield Strength (0.2 % offset) min,psi (MPa)	Elongation in 4D or 4W min,%			Reduction of Area min,%		
			L	LT	ST	L	LT	ST

Under 0.187 (4.75) thickness or diameter	125 000 (860)	115000(795)	10	...	...	...	...	...
0.187 (4.75) to under 1.75(44.45), incl	125 000(860)	115000(795)	10	...	...	25	...	...
1.75 (44.45) to under 2.50 (63.50), incl	120 000(825)	110000(760)	8	...	...	20	...	...
2.50 (63.50) to 4.00(101.60), incl	120 000 (825)	110000(760)	8	8	8	15	15	15

Quality Assurance and Testing Certification

To ensure product stability and traceability, we provide comprehensive quality and testing documentation, including:

Mechanical performance test reports

Metallographic structure test reports

Chemical composition analysis reports

Full-process material traceability system

Material factory quality assurance certificates

Service and Technical Support

Professional material selection and application advice

Customized titanium forging solutions

Processing and manufacturing support based on drawings

Fast-response after-sales technical service

Our experienced technical team ensures smooth project communication, stable quality, and reliable delivery.

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ASTM F136 ELI titanium forgings Frequently Asked Questions (FAQ)

What is the difference between ASTM F136 and ASTM F1472?

ASTM F136 uses Ti-6Al-4V ELI (Extra Low Interstitial) titanium alloy. Compared to ASTM F1472, F136 has lower interstitial element content, exhibiting superior fatigue performance and biocompatibility in long-term implant applications.

Can you provide custom ASTM F136 ti forgings?

Yes. We can customize titanium forgings according to your drawings or technical requirements.

Do you have ASTM F136 titanium forgings in stock?

Our stock of ASTM F136 titanium forgings mainly consists of forgings with diameters commonly used in orthopedics and dentistry. Please contact us for real-time stock availability.

Contact Information

For more information about ASTM F136 ELI titanium forgings or to obtain a quote, please contact us via the following methods:

Tel: +86-138-09172622