

Grade 12 Titanium Disc

Grade 12 titanium alloy disc is the star product of Zecheng Metal. The production process incorporates advanced forging and heat treatment technologies to ensure its excellent physical properties and long-term durability.

Grade 12 Titanium Disc manufacturers

Grade 12 titanium alloy (Ti-0.3Mo-0.8Ni) is a near-alpha alloy that offers enhanced strength and stability compared with Grade 2 titanium, while preserving exceptional resistance to corrosion. It is particularly well suited for applications exposed to chlorides, seawater, and elevated temperatures.

High strength: It can maintain good mechanical properties even in high-temperature environments.

Corrosion resistance: Excellent corrosion resistance, especially in chloride and seawater environments.

Welding performance: Easy to weld and stable performance after welding.

Stability: It has good dimensional stability and fatigue resistance under long-term use.

Grade 12 Titanium Alloy Disc Detailed Specifications

Grade	Grade 12
Chemical composition	Ti-0.3Mo-0.8Ni
Density	4.51 g/cm ³
Origin	Baoji, China
Production standard	ASME SB381、ASTM B381、GB/T 16598
Dimensions	Outer diameter: $\Phi \geq 100\text{mmmm}$ Cross-section height: $\geq 10\text{mm}$
Tensile strength	$\geq 483\text{ MPa}$
Yield strength	$\geq 345\text{MPa}$
4D elongation	$\geq 18\%$
Shrinkage rate	$\geq 25\%$
Surface treatment (optional)	Sandblasting, Electroplating, Machining
Condition (optional)	Hot working state , Annealing state

Note: For non-standard sizes or special requirements, we provide fully Customized Grade 12 Titanium Disc manufacturing based on your drawings or specifications.

Quality Assurance & Manufacturing Capability

As a trusted Ti-0.3Mo-0.8Ni disc supplier in China, Baoji Zecheng Metal Materials Co., Ltd. maintains strict quality control throughout the entire production process:

Advanced forging and heat treatment technology

Full material traceability from raw material to finished product

Chemical composition analysis and mechanical property testing

Non-destructive testing available upon request

Flexible production for both small-batch and large-volume orders

Fast response time and professional technical support

Competitive pricing for long-term cooperation and bulk orders

Contact Grade 12 Titanium Disc Supplier in China

For inquiries, quotations, or technical consultation, please contact us:

Phone: +86-138-0917-2622

Email: info@zctitanium.com

Address: No. 37, Guojia Village Industrial Park, Taicheng Road, High-tech Development Zone, Baoji City, Shaanxi Province, China

Other Titanium Disc Grades Available

Grade 2 Titanium Disc – Commercially pure titanium with excellent formability and corrosion resistance

Grade 5 Titanium Disc (Ti-6Al-4V) – High-strength alloy for aerospace, medical, and structural applications

Grade 7 Titanium Disc (Ti-0.2Pd) – Palladium-alloyed titanium for highly corrosive chemical environments

Grade 12 Titanium Alloy Disc (Ti-0.3Mo-0.8Ni) – Optimized balance of strength, corrosion resistance, and weldability

Custom dimensions, surface finishes, and inspection requirements are available upon request.

Baoji Zecheng Metal Materials Co., Ltd.