

Grade 7 Titanium Plate

Titanium (Ti): $\geq 99.5\%$

Palladium (Pd): 0.12 – 0.25%

Tensile Strength: 345 MPa

Yield Strength: 275 – 450 MPa

Elongation: $\geq 20\%$

Hardness (HV): 160 – 200

Baoji Zecheng Metal Materials Co., Ltd. provides premium G7 titanium plates, a high-purity titanium alloy enhanced with palladium (Pd), designed for environments where corrosion resistance is critical. With your industrial needs in mind, this alloy ensures outstanding performance in both oxidizing and reducing media.

Grade 7 titanium sheet applications

Chemical Processing Industry

- Reactors
- Heat exchangers
- Towers & pressure vessels
- Acid handling equipment

Marine Engineering

- Offshore platforms
- Desalination systems
- Marine heat exchangers

Oil & Gas Industry

- Oil refining equipment
- Natural gas processing equipment

Grade 7 Titanium Sheet Specifications & Customization

Thickness: 0.8 mm – 50 mm

Width: 400 mm – 3000 mm

Length: Customizable per your project requirements

Surface Finish Options:

Machined

Polished

Sandblasted

Pickled

You can request custom sizes or finishes according to your drawings or technical specifications, ensuring seamless integration into your equipment and processes.

Grade 7 Titanium Sheet Standards & Quality Assurance

Standards: GB/T 3621, ASTM B265, ASME SB265

Certification: ISO 9001 & EN9100

Zecheng Metal's production process is strictly controlled to ensure stable and traceable product quality, meeting the requirements of critical industries such as chemical, marine, and oil and gas.

As a leading China Grade 7 titanium plate manufacturer, we provide high-quality and reliable products to customers worldwide.

Grade 7 vs Grade 2 Titanium Plate – Which Should You Choose?

Feature	Grade 2 Titanium Plate	Titanium Grade 7 Plate
Composition	Pure titanium (CP Ti)	Titanium + 0.12–0.25% Pd
Corrosion Resistance	Excellent in oxidizing media, moderate in reducing media	Excellent in both oxidizing & reducing media; superior crevice corrosion resistance in high-chloride environments
Tensile Strength	345 MPa	≥345 MPa
Yield Strength	275–400 MPa	275–450 MPa
Elongation	≥20%	≥20%
Typical Applications	General chemical processes, seawater, heat exchangers	Highly corrosive chemical equipment, marine platforms, oil & gas facilities
Cost	Lower	Higher (due to Pd content)

When to choose Grade 2:

Standard chemical and seawater environments

Oxidizing media

Cost-sensitive projects

When to choose Grade 7:

Strongly reducing acids

High chloride concentrations

High risk of crevice corrosion

Critical chemical processes requiring maximum corrosion resistance

Related Products

Grade 2 Titanium Plate – Ideal for general chemical and seawater applications

Grade 5 Titanium Plate – High-strength alloy for aerospace and medical applications

Grade 23 Titanium Plate – Superior biocompatibility for medical-grade applications

Optimize Your Process with Gr7 Titanium Plate

By choosing Grade 7 titanium plate from Baoji Zecheng Metal, you ensure your equipment withstands the harshest chemical, marine, and oil & gas environments while maintaining structural integrity and longevity.