

Type: Seamless titanium tube

Size Range

NPS: 1/2 to 36

Outer Diameter: 0.840 in - 36 in (21.34 mm - 914.40 mm)

Wall Thickness: 0.065 in - 0.750 in (1.65 mm - 19.05 mm)

Length: Supplied per purchase order

Our company provides ASTM B861 titanium tubes, suitable for general corrosion-resistant and high-temperature applications, including seamless titanium and titanium alloy nominal tubes. These tubes cover pure titanium and various common titanium alloys (such as Gr.5 Ti-6Al-4V, Gr.9 Ti-3Al-2.5V, Gr.12 Ti-0.3Mo-0.8Ni, and Gr.23 Ti-6Al-4V ELi).

These titanium tubes possess excellent corrosion resistance and high-temperature resistance, and are widely used in chemical, marine, aerospace, and medical fields, meeting various industrial and high-precision requirements.

Manufacturing Conditions: Cold worked, Hot worked, Stress-relieved, Annealed, Solution treated & aged

Available Grades: Gr.1, Gr.2, Gr.3, Gr.5, Gr.7, Gr.9, Gr.11, Gr.12, Gr.17, Gr.23, and others upon request.

For more details on these alloys, explore our [Titanium Alloy Guide](#)

Surface Finishes: Pickled, polished, sandblasted, or fully customized based on your requirements.

seamless titanium pipe Quality Testing

Every titanium tube undergoes strict quality control procedures, including:

Bend test, Flattening test, Hydrostatic test, Surface inspection

This ensures consistent performance and long-term reliability in critical environments.

ASTM B861 titanium tubes Applications

- Aircraft hydraulic tubing
- Engine system piping
- Heat exchangers and condensers
- Chemical reactors
- Seawater desalination systems
- Power plant condensers

- Racing car frames
- High-performance bicycle components

#### ASTM B861 titanium pipes Common Grades & Properties

| Grade | UNS No. | Key Features                                                                       | Typical Applications                                        |
|-------|---------|------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Gr 1  | R50250  | Commercially pure titanium with excellent formability and corrosion resistance     | Chemical processing, seawater cooling coils                 |
| Gr 2  | R50400  | Most commonly used CP titanium; best balance of strength and formability           | Heat exchangers, condenser tubes, offshore systems          |
| Gr 5  | R56400  | Ti-6Al-4V; high strength, widely used aerospace alloy                              | Aerospace structures, high-performance engine components    |
| Gr 7  | R52400  | Palladium-enhanced; superior corrosion resistance, especially to crevice corrosion | Strong oxidizing chemical environments                      |
| Gr 9  | R56320  | Ti-3Al-2.5V; excellent cold formability                                            | Aircraft hydraulic tubing, bicycle frames, sports equipment |
| Gr 12 | R53400  | Ti-0.3Mo-0.8Ni; high strength, excellent heat & crevice corrosion resistance       | Chemical equipment, heat exchangers                         |

Additional grades can be supplied according to your specifications.

#### Mechanical Properties (Annealed Condition)

| Grade | Tensile Strength Min (MPa) | Yield Strength Min (MPa) | Yield Strength Max (MPa) | Elongation Min (%) |
|-------|----------------------------|--------------------------|--------------------------|--------------------|
| Gr 1  | 240                        | 138                      | 310                      | 24                 |
| Gr 2  | 345                        | 275                      | 450                      | 20                 |
| Gr 5  | 895                        | 828                      | —                        | 10                 |
| Gr 9  | 620                        | 483                      | —                        | 15                 |
| Gr 12 | 483                        | 345                      | —                        | 18                 |

Data shown are typical values; final specifications are subject to the material test certificate (MTC).

Why Choose Us?

#### 1. Guaranteed Quality

All tubes are manufactured and tested strictly in accordance with ASTM B861. Complete MTCs are provided with every order.

#### 2. Large Inventory

We maintain extensive stock of popular grades and sizes to ensure fast delivery for your projects.

#### 3. Custom Fabrication

You can request customized cutting, machining, and special dimensions based on drawings or technical requirements.

#### 4. Professional Technical Support

Our engineering team provides expert guidance for material selection, design optimization, and application consulting.

Contact Us Today

Looking for a reliable supplier of ASTM B861 seamless titanium tubes?

Get in touch with us for technical specifications, pricing, and samples.

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