

ASTM B862 Titanium Welded Tubes – Premium Corrosion-Resistant Tubing Solutions

Our **ASTM B862 titanium welded tubes** provide outstanding corrosion resistance and uniform wall thickness, ideal for supporting larger diameter pipelines while ensuring reliable welding performance. Whether you're focused on improving equipment performance, extending service life, or optimizing costs, **titanium welded tubes** are the perfect solution for your needs.

At Baoji Zecheng Metal Materials Co., Ltd., we specialize in delivering efficient, reliable, and cost-effective titanium tube solutions to ensure your equipment performs excellently in even the most demanding environments.

Key Advantages of ASTM B862 Titanium Welded Pipes

- **Cost-Efficiency:** Our titanium welded pipes are more cost-effective compared to seamless tubes, allowing you to reduce costs while maximizing efficiency.
- **Uniform Wall Thickness:** Thanks to our advanced strip-coiling technology, the wall thickness is evenly distributed across the tube.
- **Consistent Material Properties:** By sourcing the material from the same strip coil, we ensure uniform mechanical properties throughout the entire tube.
- **Flexible Specifications:** We can manufacture larger diameter thin-walled tubes and offer custom lengths beyond standard dimensions.

Customizable ASTM B862 Titanium Tube Specifications

Titanium Tube Standard	ASTM B862
Product Type	Welded titanium tubes and titanium alloy tubes
Dimensions (Customizable)	Outer Diameter: ϕ 10mm to ϕ 950mm (NPS sizes available)
	Wall Thickness: 0.1mm to 30mm
	Length: Available in straight tube or U-bend forms; lengths up to 12,000mm
Delivery Condition	Annealed (M)
Surface Treatment	Pickled, polished, sandblasted, or customized per request
Custom Services	Bending, welding, cutting, and other processing services based on your specific requirements.

Frequently Asked Questions About ASTM B862 Titanium Tubes

Q1: What's the difference between ASTM B862 welded titanium tubes and ASTM B861 seamless titanium tubes? How do I choose?

A: ASTM B862 welded tubes use strip coil welding technology, offering excellent cost-efficiency and uniform wall thickness. These tubes are perfect for applications requiring larger diameter and thin-walled tubes, like heat exchangers and condensers.

ASTM B861 seamless tubes, produced by piercing and rolling billet, are ideal for high-pressure, extreme temperature environments, or applications where welds are unacceptable.

Q2: Are welds in titanium tubes weak points? How is corrosion resistance and strength ensured?

A: Our factory uses advanced automated TIG (GTAW) welding with real-time monitoring to ensure quality welds. Post-weld heat treatment aligns the weld zone's metallurgical structure with the parent material. Non-destructive testing (NDT), such as ultrasonic and eddy current inspections, ensures weld integrity, making our titanium tubes as corrosion-resistant and strong as seamless alternatives.

Q3: Can your titanium welded tubes be used in highly corrosive chemical environments?

A: Yes! Titanium's corrosion resistance comes from its stable oxide layer. Our ASTM B862 welded tubes come in grades like Gr1, Gr2, Gr5, Gr7, and Gr12. Grade Gr7 (titanium-palladium alloy) excels in resisting oxidation and crevice corrosion in acidic environments. Contact us for recommendations based on your specific chemical exposure.

Q4: Can you provide large diameter or extra-long titanium tubes?

A: Yes, we can! Unlike seamless tubes, which have limitations in diameter and length, our welded titanium tubes are highly flexible. We can manufacture tubes with diameters over 300mm and lengths up to 12 meters or more. Let us know your custom size requirements!

Q5: How do you ensure the quality of your welded pipes?

A: We adhere to strict quality control procedures:

1. Raw Material Inspection: Ensures the titanium strip meets all required chemical standards.
2. Welding Process Control: Real-time monitoring of welding parameters.
3. Post-Weld Treatment: Heat treatment to optimize mechanical properties.
4. Non-Destructive Testing: 100% eddy current or ultrasonic testing for weld integrity.
5. Final Inspection: Water pressure testing, dimensional checks, and surface quality inspections ensure full compliance with ASTM B862 and your specifications.

Contact us for more details on ASTM B862 titanium welded tubes or to receive a custom quote with technical specifications