

Medical Titanium Wire

Material Grades: Grade 1, Grade 2, Grade 5, Grade 23

Standards: ASTM F136, ASTM F67, ISO 5832-3, ASTM B863, ASTM F1341

Origin: Baoji, China

Form: Coil, Straight Length

Our medical titanium alloy wire offers exceptional biocompatibility and torsional strength, effectively minimizing tissue reactions and promoting wound healing. With a highly experienced technical team, we provide professional support and consultation to ensure you select the most suitable titanium wire products for your needs.

Key Features of Medical Titanium Wire

- 1. Outstanding Biocompatibility: No rejection, ideal for fracture fixation and dental implants.
- 2. High Strength and Lightweight: Superior tensile strength and lightweight to reduce patient burden.
- 3. Excellent Corrosion Resistance: Resistant to acid and alkali corrosion, perfect for long-term implantation.
- 4. Easy Customization: Tailored diameters, lengths, and shapes for your specific needs.
- 5. MRI-Compatible: Non-magnetic, safe for use in MRI environments.

Customizable Titanium Wire Specifications

Property	Description
Diameter	0.1mm - 8.0mm (customizable upon request)
Tolerance	h6 - h9
Length	Custom lengths available upon request
State	Annealed / Cold worked
Finish	Pickled, Cold Drawn, Polished
Shape	Round, Square, Flat, etc.

Applications of Medical-grade titanium wire in Various Fields

Product Form	Materials	Applications
Bone Plate/Intramedullary Nail Wire	Pure Titanium, Ti-6Al-4V ELI	Used in fracture fixation, spinal fusion, and maxillofacial repair. Provides stable mechanical support to promote healing.
Cardiovascular Stent Wire	Nitinol (Nickel-Titanium Alloy)	Shape memory function to open narrowed blood vessels, with anti-thrombogenic coating.
Dental Medical Wire	Pure Titanium, Ti-6Al-4V ELI	For dental implants and orthodontic wire.
Surgical Suture Wire	Pure Titanium, Ti-6Al-4V	Used for tissue suturing and skeletal ligation (e.g., sternum sutures).

Explore more content:

<https://www.zctitanium.com/info/titanium-wire-the-unrivaled-life-guardian-in-103284572.html>

Custom Titanium Alloy Wire for Specific Medical Uses

Diameter Range (mm)	Common Sizes (mm)
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Diameter Range (mm)	Common Sizes (mm)
Orthodontics/Restorative	0.5 - 2.0 mm
Orthopedics/Trauma Surgery	1.0 - 4.0 mm
Cardiovascular Interventions & Surgery	0.05 - 0.5 mm
Surgical Sutures	0.1 - 0.4 mm

Titanium Wire Grades and Element Composition

Grade	ASTM F67		ASTM F136
Element	Grade1	Grade2	Ti-6Al-4V
Ti	Remaining	Remaining	Remaining
N,max	0.03	0.03	0.05
C,max	0.08	0.08	0.08
H,max	0.015	0.015	0.012
Fe,max	0.20	0.30	0.25
O,max	0.18	0.25	0.13
Al	-	-	5.5-6.50
V	-	-	3.5-4.5

Why Choose Medical-grade titanium wire Over Stainless Steel Wire?

Titanium medical wire offers numerous advantages over stainless steel wire, including lower tissue reactions, superior torsional strength, lightweight design, and better biocompatibility, making it the optimal choice for long-term implantation without causing inflammation or rejection.

Customization Options for Medical Titanium Alloy Wire

Yes, our titanium wire is fully customizable to meet your specific requirements, such as diameter, length, shape, and surface treatment.

Besides medical-grade titanium wire, what other types of titanium wire are there?

In addition to medical titanium alloy wire, we offer various other types, including titanium alloy wire, pure titanium wire, titanium straight wire, titanium welding wire, titanium coil wire, titanium hook wire, titanium bright wire, and titanium nickel alloy wire.

If you have any questions or require further information about our Medical-grade titanium wire products, technical support, or customization services, please contact our customer service team.

We look forward to partnering with you in advancing medical technology.

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