

Titanium & Tungsten Mill Products

Reliable materials. Clear documentation. Global delivery.

PLATE / SHEET

BAR / ROD

TUBE / PIPE

WIRE

CUSTOM PARTS

TUNGSTEN

EXPORT CONTACT

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Product Catalog

A concise guide to products, grades, standards and ordering information.

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CORE PRODUCT SCOPE

Titanium plate, bar, tube, wire, forgings and CNC parts; tungsten rods and electrodes.

01 / ABOUT US

Built for Export Supply

Specification-led sourcing and responsive international service from Zhejiang, China.

One contact. Multiple product forms.

Requirement review, mill coordination, inspection and export delivery.

Yiwu Tongke Trading supplies titanium and tungsten materials to overseas buyers. We coordinate qualified partner mills and machining resources in China, with a focus on clear specifications, batch documentation and practical export support.

TRACEABLE

MTR and batch
identification as agreed

CUSTOM

Cut sizes and
drawing-based machining

MULTI-GRADE

CP Ti, alloy Ti and tungsten
products

EXPORT

Protective packing and
global shipping support

WORKFLOW

Requirement > Grade & standard > Quote > Production > Inspection > Export packing

02 / TECHNICAL REFERENCE

Titanium Grade Guide

Indicative cross-reference for inquiry preparation; the contracted specification always governs.

ASTM grade	Common GB reference	Min. tensile*	Typical selection
Grade 1	TA1	240 MPa	Best ductility; deep drawing, heat exchange
Grade 2	TA2	345 MPa	General corrosion service, marine, chemical
Grade 3	TA3	450 MPa	Higher-strength commercially pure titanium
Grade 4	No exact 1:1	550 MPa	Highest-strength ASTM CP titanium
Grade 5	TC4	895 MPa	Aerospace, high-strength parts, fasteners
Grade 7	TA9	345 MPa	Pd-alloyed corrosion resistance
Grade 9	TA18	620 MPa	Weldable tubing, sports and structures
Grade 12	TA10	483 MPa	Hot brine and elevated-temperature service
Grade 23	Ti-6Al-4V ELI	860 MPa	Medical / high-purity interstitial control

** Representative minimum values in common annealed product specifications; confirm product form, edition and condition.*

Common product standards

Form	Common standards
Plate / sheet	ASTM B265; AMS 4911 for specified Ti-6Al-4V sheet/plate requirements
Bar / billet	ASTM B348; ASTM B381 for forgings; AMS 4928 when specified
Tube / pipe	ASTM B338 (heat exchanger tube); ASTM B861 (seamless pipe); ASTM B862 (welded pipe)
Wire	ASTM B863; AWS filler-metal designations when welding wire is required
Medical	ASTM F67 (CP Ti); ASTM F136 (Ti-6Al-4V ELI), subject to qualification
Tungsten	ASTM B760 and drawing-specific requirements

03 / PRODUCT 01

Titanium Plate / Sheet

CP titanium and alloy plate, sheet and foil with cut-to-size support.



SUPPLY SNAPSHOT

GRADES

Gr1 / Gr2 / Gr5 / Gr7 / Gr9 / Gr12 / Gr23

THICKNESS

Foil 0.03 mm to plate 60 mm

STANDARD

ASTM B265 / agreed AMS or GB specification

Typical supply range

Item	Typical specification	Options
Cold-rolled sheet	0.3-4.0 mm x 400-1500 mm x 1000-3000 mm	Pickled / bright / polished
Hot-rolled plate	4.0-60 mm x 400-3000 mm x up to 6000 mm	Cut to length
Titanium foil	0.03-0.5 mm x 30-600 mm x 30-2000 mm	Coil / sheet
Surface	Pickled, sand-blasted, ground or polished	Per RFQ
Processing	Water-jet / laser / saw cutting, flat blanks	Per drawing
Packing	Moisture barrier, protective film and export case	Export standard

ORDERING NOTE

Provide grade, governing standard and revision, thickness, width, length, quantity, surface condition, flatness/tolerance requirements and required inspection documents.

04 / PRODUCT 02

Titanium Bar / Rod

Rolled, forged, turned and ground titanium bar for industrial and precision parts.



SUPPLY SNAPSHOT

GRADES

Gr1-Gr5 / Gr7 / Gr12; TA and TC series

DIAMETER

3-350 mm typical; larger forgings on inquiry

STANDARD

ASTM B348 / ASTM B381 / specified AMS

Typical supply range

Item	Typical specification	Options
Round bar	Dia. 3-350 mm; length 1000-6000 mm	Cut to length
Large forged bar	Dia. 80-500 mm	Forged / machined
Square / hex bar	Square 6-15 mm; hex across flats 8-50 mm	On request
Condition	Hot-worked, annealed or cold-worked	Per standard
Surface	Black, peeled, turned, ground or pickled	Per RFQ
Processing	Saw cut, turning, drilling and CNC machining	Per drawing

ORDERING NOTE

For fast quoting, include final part allowance, straightness, diameter tolerance, ultrasonic-test requirement and whether cut ends must be faced or deburred.

05 / PRODUCT 03

Titanium Tube / Pipe

Seamless and welded titanium products for heat transfer, fluid service and structures.



SUPPLY SNAPSHOT

GRADES

Gr1 / Gr2 / Gr7 / Gr9; TA1 / TA2 / TA9 / TA18

RANGE

OD 3-325 mm typical; larger sizes on inquiry

STANDARD

ASTM B338 / B861 / B862

Typical supply range

Item	Typical specification	Inspection
Seamless tube / pipe	OD 3-219 mm; wall 0.5-20 mm	Per ordered standard
Welded tube / pipe	OD 16-325 mm; wall 0.5-8.0 mm	Per ordered standard
Heat-exchanger tube	OD 20-60 mm; wall 0.6-3.0 mm; up to 8000 mm	Eddy current / hydro
Capillary tube	OD 0.8-6 mm; wall 0.06-1.0 mm	Precision supply
Length	Standard 3-12 m or cut to length	Per RFQ
Finish	Pickled, annealed, bright or polished	Per specification

ORDERING NOTE

State whether the requirement is tube or pipe, seamless or welded, and the applicable test method. Include OD, wall, length, end preparation and pressure/heat-exchanger service conditions.

06 / PRODUCT 04

Titanium Wire

Titanium wire and welding wire supplied in coil, spool or straightened cut lengths.



SUPPLY SNAPSHOT

GRADES

Gr1-Gr5 / Gr7 / Gr9; TA and TC alloys

DIAMETER

0.1-8.0 mm typical

STANDARD

ASTM B863 / specified AWS, AMS, GB or JIS

Typical supply range

Item	Typical specification	Options
Fine wire	Dia. 0.1-0.8 mm	Coil / spool
General wire	Dia. 0.8-3.0 mm	Welding / mesh / forming
Heavy wire	Dia. 3.0-8.0 mm	Coil / straight length
Condition	Annealed, half-hard or cold-worked	Per standard
Surface	Pickled, bright, ground or polished	Per RFQ
Packaging	Spool, coil or straight bundle	By diameter

ORDERING NOTE

Welding wire requires the exact filler designation, chemistry limits, diameter tolerance, surface cleanliness, spool type and unit weight. General-purpose wire should state temper and straightness.

07 / PRODUCT 05

Machined Titanium Parts

Forgings, rings, flanges and CNC components manufactured to drawings.



SUPPLY SNAPSHOT

PRODUCTS

Flanges / rings / discs / blocks / special parts

PROCESS

Forging, turning, milling, drilling and boring

INPUT

PDF / STEP / DWG drawing and inspection plan

Typical supply range

Item	Typical capability	Reference
Titanium flange	Per ASME / GB / HG standard or customer drawing	CNC machined
Forged ring	OD 100-1800 mm; wall 10 mm and above	ASTM B381 as specified
Disc / block	Dia. 50-1500 mm; thickness per request	Forged / annealed
Custom component	Turning, milling, drilling, boring and profiling	Drawing controlled
Surface	Machined, pickled, sand-blasted or polished	Per RFQ
Inspection	Dimensions, MTR and agreed NDT / third-party inspection	Per contract

ORDERING NOTE

Attach the latest drawing revision and specify material, quantity, dimensional and geometric tolerances, surface finish, special processes, inspection level and marking/packing requirements.

08 / PRODUCT 06

Tungsten Products

Pure and doped tungsten rods, electrodes, plates and custom forms.



SUPPLY SNAPSHOT

PURITY

Pure W typically 99.95% min.

FORMS

Rod / electrode / plate / block / custom part

REFERENCE

ASTM B760 / GB / customer drawing

Typical supply range

Item	Typical specification	Options
Pure tungsten rod	Dia. 1-100 mm	Ground / black
TIG electrode	Common diameters and lengths per RFQ	Pure / thoriated / rare-earth doped
Tungsten plate / block	Dimensions per drawing	Cut / ground / machined
Doped tungsten	WL10 / WL20 and other agreed compositions	Subject to availability
Density	Approx. 19.3 g/cm3 for pure tungsten	Reference value
Applications	Welding, high-temperature, shielding and counterweights	Engineering use

ORDERING NOTE

Confirm product chemistry, dopant designation, dimensions, tolerance, straightness, surface, unit weight, quantity and any packaging/color-identification requirements.

09 / QUALITY ASSURANCE

Documentation You Can Review

Define the acceptance criteria before production and receive the agreed records with the shipment.

01

Specification review

Grade, product standard, edition, condition, size and tolerances are confirmed.

02

Material control

Heat / lot traceability and raw-material certificates are matched to the order.

03

Process & inspection

Dimensions, surface and required NDT or mechanical tests are checked.

04

Release & packing

Documents are reviewed before moisture-protected export packing.

AVAILABLE BY CONTRACT / REQUEST

- Mill Test Report (MTR)
- Mechanical properties
- UT / eddy-current / hydrostatic test as applicable
- Chemical composition
- Dimensional inspection
- Third-party inspection coordination

Important: aerospace, pressure equipment and medical uses may require customer-specific approval, special-process control or additional certification. State these requirements in the RFQ.

10 / REQUEST A QUOTE

From Requirement to Shipment

Send complete technical details for a fast and accurate quotation.

AEROSPACE

High strength-to-weight structures and machined components

CHEMICAL

Corrosion-resistant plate, piping and heat-exchanger materials

MARINE

Seawater piping, desalination and offshore components

MEDICAL

Material grades for implant and instrument supply chains

INDUSTRIAL

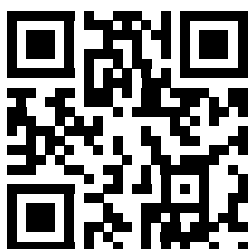
Fasteners, electrodes, springs and precision components

HIGH-TEMP

Tungsten electrodes and refractory-metal applications

RFQ CHECKLIST

- | | |
|---|--|
| ☐ Product form | ☐ Grade / alloy |
| ☐ Standard + revision | ☐ Dimensions + tolerances |
| ☐ Quantity | ☐ Surface / condition |
| ☐ Inspection documents | ☐ Delivery destination |



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