BAOJI QICHENG NON-FERROUS METALS CO., LTD.

MILL PRODUCT CATALOGUE

Titanium **Mill Products**

Eleven product forms produced on one melt-to-mill route in Baoji, Shaanxi — the city that supplies a large share of the world's titanium mill product. Supplied as certified mill product, to GB, ASTM, EN or JIS as your drawing names.

- Plate & sheet
- Wire
- Mesh
- Sintered filter
- Tube & pipe
- Coil, strip & foil
- Forgings
- Spherical powder
- Bar & rod
- Ring
- Titanium-clad copper

ISO 9001:2015 · HIC250047
Mill product certified to EN 10204 3.1 as standard, 3.2 on request

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The grade on your drawing, **in four designation systems**

A drawing may name titanium in ASTM, GB, EN or JIS. The table gives the standard correspondences used in industry, so an RFQ written against one system can be answered against another. **Correspondence is not a claim of identical limits — the standard edition called out on your drawing governs.**

ASTM	GB	UNS	EN / DIN	JIS	TYPE	TYPICAL FORMS
GR1	TA1	R50250	3.7025	Class 1	CP, lowest strength, highest ductility	Plate, sheet, bar, tube
GR2	TA2	R50400	3.7035	Class 2	CP, the general-purpose grade	Plate, sheet, bar, tube, forging stock
GR3	TA3	R50550	3.7055	Class 3	CP, higher strength than GR2	Plate, bar, tube
GR4	TA4	R50700	3.7065	Class 4	CP, highest strength of the CP grades	Bar, plate, forging stock
GR5	TC4	R56400	3.7164 / 3.7165	TAP6400H	Ti-6Al-4V, alpha-beta; the aerospace workhorse	Bar, billet, plate, forging stock, preforms
GR5 ELI	TC4 ELI	–	–	—	Ti-6Al-4V ELI, extra-low interstitial	Forging stock, bar, billet
GR6	TA7	R54520	3.7111	—	Ti-5Al-2.5Sn, near-alpha, elevated temperature	Bar, plate, forging stock
GR7	TA9	R52400	–	—	CP titanium with palladium, crevice corrosion	Plate, sheet, bar, tube
GR9	TA18	R56320	–	—	Ti-3Al-2.5V, alpha, cold-formable	Tube, bar, sheet
GR11	TA9-1	R52250	–	—	CP titanium with palladium, lower-Pd variant	Plate, sheet, tube
GR12	TA10	R53400	–	—	Ti-Mo-Ni, improved corrosion and strength	Plate, sheet, bar, tube

Mill supply list — plate. Grades held in regular supply: TA series TA1, TA2, TA3, TA7, TA9, TA10, TA15, TA18, TA23 · TB series TB5, TB6, TB15333, TB9 · TC series TC1, TC2, TC4, TC6, TC9, TC11, TC18, TC21, TC23. Plate thickness 0.5–150 mm to GB/T 3621 and ASTM B265. Other grades are produced to order.

Plate, sheet, **strip and foil**

One rolled family, taken to different gauges. Plate is the workhorse form for vessel shells, tube sheets and machined blanks; thin sheet and foil are for formed, stamped and welded parts where gauge consistency along the length decides whether the material survives the press.

01 Titanium plate & sheet

HOT ROLLED

Supplied hot rolled and annealed, descaled or pickled. Width and length are produced to your ordered specification; the maximum size we can commit follows the current rolling schedule and is confirmed in writing at quotation rather than quoted as a nominal figure.

GRADES	TA1, TA2, TA3, TA7, TA9, TA10, TA15, TA18, TA23 · TB5, TB6, TB15333, TB9 · TC1, TC2, TC4, TC6, TC9, TC11, TC18, TC21, TC23
THICKNESS	**0.5 – 150 mm**
STANDARD	`GB/T 3621 · ASTM B265 / ASME SB265 · AMS 4911 (Ti-6Al-4V)`
CONDITION	Hot rolled, annealed, descaled / pickled — stated on the mill certificate
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — heat-lot traceable chemistry and mechanicals

02 Coil, strip & foil

SLIT TO WIDTH

Coil and strip are bought by people who form, stamp or weld — gauge consistency along the length, a surface that forms without cracking, and an edge that feeds a weld mill. Foil is the thin end of the same range, where the difficulty is holding gauge and flatness at a thickness that tears easily.

GRADES	GR1, GR2, GR5 / TC4, GR12 — other grades to order
STANDARD	`ASTM B265 (strip, coil, foil) · AMS 4911 (Ti-6Al-4V)`
FORMS	Coil · cut-to-length strip · foil in coil or cut sheet · slit edge or mill edge
CONDITION	Annealed, as-rolled, pickled — temper and surface stated on the certificate
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — heat-lot traceable

> **Foil outside B265 scope** is supplied to your tolerance rather than to a nominal range. Give us the window you need and the application; we confirm what can be rolled before quoting.

Tube, pipe, **bar and wire**

Titanium is chosen for these forms when the fluid is aggressive or the weight of steel cannot be carried. The governing specification is set by service, not by preference — so the test method named on your drawing is the one we quote to.

03 Titanium tube & pipe

SEAMLESS / WELDED

GRADES	GR1, GR2, GR3, GR12 / TA10, GR5 / TC4 — other grades to order
SEAMLESS TUBE	`ASTM B338 / ASME SB338 — condenser and heat-exchanger tube`
SEAMLESS PIPE	`ASTM B861`
WELDED PIPE	`ASTM B862 — usually the more economical answer for heat exchangers`
TESTING	Hydrostatic, eddy current, ultrasonic, flattening — to the method and acceptance your drawing names
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — heat-lot traceable

04 Bar & rod

PEELED / GROUND

The most common starting form for turned parts. The supply condition is stated on the certificate rather than left implied, because in titanium the condition governs machinability as much as the grade does.

GRADES	GR1, GR2, GR4, GR5 / TC4, TC4 ELI, GR7, GR9, GR12 — GB TA / TB / TC series to order
STANDARD	`ASTM B348 / ASME SB348 (bars and billets) · AMS 4928 (Ti-6Al-4V aerospace bar)`
FORMS	Round · square · hex · rectangular / flat — random or cut lengths
CONDITION	Hot rolled, forged, annealed, peeled, centreless ground
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — heat-lot traceable

05 Titanium wire

SPOOL / STRAIGHT

Three uses decide the specification: welding filler, feedstock for fasteners and springs, and the raw material for woven mesh and sintered filters. Each needs a different surface and temper, so the end use is confirmed at order rather than assumed.

GRADES	GR1, GR2, GR3, GR4, GR5 / TC4, TC4 ELI — other grades to order
STANDARD	`ASTM B863 · AWS A5.16 (welding wire, where specified)`
FORMS	Coil on spool · straight cut lengths — diameter and temper to your specification
SURFACE	As-drawn, cleaned, pickled or bright — depends on end use, stated at order
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — heat-lot traceable

Rings, forgings, **titanium-clad copper**

Where the shape is close to the finished part, the forging route is chosen on size and quantity rather than on preference. A ring blank instead of a solid disc removes most of the material you would otherwise buy and then machine away, and aligns the grain flow with the hoop direction.

06 Titanium ring

RING ROLLED

GRADES	GR2, GR5 / TC4, TC4 ELI, Ti-6242 — other grades to order
STANDARD	`ASTM B381 · AMS 4928 (Ti-6Al-4V)`
ROUTE	Open-die forged, or ring rolled — chosen on size and quantity
CONDITION	As-forged blank with machining stock, rough machined, or finish machined
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — heat-lot traceable, UT where specified

07 Titanium forgings

OPEN / CLOSED DIE

GRADES	GR2, GR5 / TC4, TC4 ELI, Ti-6242, plus TA / TB / TC series — other grades to order
STANDARD	`ASTM B381 · AMS 4928 (Ti-6Al-4V)`
ROUTES	Open-die · closed-die · ring rolled — chosen on size, shape and quantity
SHAPES	Blocks · discs · shafts · rings · shaped near-net blanks — to your forging drawing
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — heat-lot traceable, UT per drawing

08 Titanium-clad copper

BIMETALLIC

Carries current in the copper core and resists the electrolyte in the titanium skin — the construction used for electrodes and electrolytic duty, where neither metal alone does both jobs.

CONSTRUCTION	Copper core with a commercially pure titanium skin — typically GR1 / GR2 over tough-pitch copper
BONDING	Explosion bonded or roll bonded — method stated at quotation
FORMS	Bar · rod · plate — round, rectangular, square; transition joints where specified
KEY PARAMETERS	Clad thickness, bond integrity, conductivity, dimensions — agreed at order, these define the product
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — base-material heat lots traceable

Mesh, sintered filter, **spherical powder**

09 Titanium mesh

WOVEN / EXPANDED

GRADES	GR1, GR2 — other commercially pure grades to order
BASE MATERIAL	`ASTM B265 strip or B863 wire`
TYPES	Woven wire mesh · expanded metal · perforated sheet
SPECIFICATION	Mesh count, wire diameter, aperture, panel or roll size — these define the product
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — heat-lot traceable to base material

10 Sintered titanium filter

VACUUM SINTERED

GRADES	GR1, GR2 — commercially pure titanium powder; other grades where the medium requires it
CONSTRUCTION	Sintered porous titanium — powder pressed and vacuum sintered; porosity and rating controlled by powder selection and sintering parameters
FORMS	Filter element / cartridge · filter rod · tube · disc · plate; custom shapes and end fittings to drawing
RATING	Micron rating to your specification — confirmed at quotation against the rating and flow rate you need
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — traceable to the base powder lot

11 Spherical titanium powder

EIGA / PREP

EIGA ROUTE	GR1 (CP) · GR5 (Ti-6Al-4V) · GR23 (Ti-6Al-4V ELI) — electrode induction melted without a crucible, atomised by inert gas
PREP ROUTE	GR5 · Ti-6.5Al-1Mo-1V-2Zr · Ti-6.5Al-3.5Mo-1.5Zr-0.3Si · Ti-5Al-4.75Mo-4.75V-1Cr-1Fe — plasma rotating electrode, centrifugal atomisation
MESH CUTS	20 · 40 · 60 · 100 · 160 · 200 · 260 · 320 mesh as produced; a specific micrometre window for your machine is confirmed in writing against current sieve data
CONTROL	No crucible in the melt path; inert gas throughout; O, N and H monitored per batch and checked on the certificate
CERTIFICATE	EN 10204 3.1 standard; 3.2 on request — chemistry certified to GB and ASTM

Quality system **and documentation**

Mill product is released against its certificate before it leaves the works. Chemistry and mechanical properties are traceable to the melt heat number on every consignment.

ISO 9001:2015 — HIC250047

Held by Baoji Qicheng Non-ferrous Metals Co., Ltd., valid to 2028-01-09. Scope: production and sales of titanium and titanium alloy plate, rod, wire, tube and precision parts.

EN 10204 3.1 / 3.2

3.1 inspection certificate as standard, 3.2 on request. Heat-lot traceable chemistry and mechanical properties, issued with the consignment.

Mechanical testing

Tensile, hardness and, where specified, impact testing on material released to the order — to the acceptance criteria your drawing and specification call out.

Non-destructive testing

Ultrasonic (UT), penetrant (PT) and radiographic (RT) testing, performed as specified on the drawing, reporting method, coverage, acceptance class and result.

COMPANY INFORMATION

Baoji Qicheng **Non-ferrous Metals**

LEGAL NAME	Baoji Qicheng Non-ferrous Metals Co., Ltd. Unified Social Credit Code 91610301507806081G
WORKS	Plant No. 3, Phase I, High-end Equipment Industrial Park, Shuxiang Road, Baoji High-tech Development Zone, Baoji, Shaanxi 721013, China
PRODUCTS	Titanium mill product in eleven forms — plate and sheet, tube and pipe, bar and rod, wire, coil and foil, ring, mesh, forgings, titanium-clad copper, sintered filter elements, spherical powder.
EMAIL	support@baojitiprecision.com
TEL / WHATSAPP	+86 173 9269 1107
WEBSITE	https://baojitiprecision.com/
QUALITY	ISO 9001:2015 · certificate HIC250047, valid to 2028-01-09 EN 10204 3.1 inspection certificate as standard, 3.2 on request