ALLOYTI
Titanium mill products · Baoji, Shaanxi, China

Technical datasheet
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Titanium Bar & Rod

ASTM B348 · AMS 4928 · GB/T 2965

GRADES AND TYPICAL MECHANICAL PROPERTIES

Grade	Designation	Rm (MPa, min)	Rp0.2 (MPa, min)	A (%, min)
Gr.1	TA1	240	138	24
Gr.2	TA2	345	275	20
Gr.5	TC4 / Ti-6Al-4V	895	828	10
Gr.9	Ti-3Al-2.5V	620	483	15
Gr.12	Ti-0.3Mo-0.8Ni	483	345	18

Values are ASTM minimums for annealed material at room temperature; density 4.51 g/cm³ (Gr.1–Gr.4), 4.43 g/cm³ (Gr.5).

SUPPLY FORMS AND SIZES

Diameter	6–250 mm
Length	≤ 6000 mm
Form	Hot rolled, forged, cold drawn, peeled or ground
Straightness	≤ 2 mm/m

CONDITION AND FINISH

Annealed; cold-drawn and ground bar available for machining and fastener stock.

INSPECTION AND DOCUMENTS

Mill certificate to EN 10204 3.1 per heat number; grain size and hardness on request.

TYPICAL APPLICATIONS

Fastener stock, machined components, medical instruments and implants (Gr.5 ELI), aircraft structural parts, pump and valve shafts.

ORDERING

MOQ 50 kg for stock sizes, 500 kg for custom or non-standard items — both negotiable. Lead time about 20 days after deposit and drawing confirmation. FOB / CIF / EXW. Payment 30% T/T deposit, 70% before shipment or against a copy of the bill of lading.

This datasheet summarises typical properties for evaluation. Final grade, tolerances and testing are confirmed in the quotation and the order

confirmation.