

## MATERIAL GRADE

Ti-6Al-4V ELI (Grade 23)

## PRIMARY STANDARD

ASTM F136 / ISO 5832-3

MDR COMPLIANT

## YIELD STRENGTH (RP0.2)

Essential for small-diameter implant screws & abutments.

ASTM Standard Limit

795 MPa

ValidTi™ Typical

995 MPa

&gt;&gt; +25% STRENGTH MARGIN

## DIMENSIONAL PRECISION

Centerless ground for Swiss-Type lathe guide bushings.

h9 (General)

h7 (Stock)

h6 (Custom)

**h7** STANDARD STOCK

Tol: 0 / -0.015mm (ISO 286-2)

\*Upgrade to h6 (0/-0.009mm) available on request.

Perfect for Guide Bushings

## CHEMICAL COMPOSITION

Nitrogen (N)	0.010 %
Carbon (C)	0.010 %
Iron (Fe)	0.17 %
Oxygen (O)	0.12 %

## STRUCTURE &amp; MACHINABILITY

Microstructure	Fine Equiaxed (A1-b)
Grain Size	ASTM > 9.0
Surface Finish	Polished (Ra 0.4)

\*Optimized for micro-threading integrity.

**SWISS-TYPE TURNING ADVISORY:** ValidTi rods are precision ground to **h6 tolerance** for jamming-free guide bushing operation. Material produces long, continuous chips; **High-Pressure Coolant (HPC)** is recommended for effective chip breaking.

## MANUFACTURING DECLARATION

Produced by Xi'an Sino Titanium Metals Co., Ltd. under ValidTi Quality Protocol V5.0.

Facility Credentials: ISO 13485 Certified (NQA) | FDA Reg: 3033849259 | Compliance Contact: info@sinoti.cn



**LEGAL STATUS:** This document summarizes **typical technical values**. For lot-specific certification (EN 10204-3.1), please refer to the shipment CoA. "ValidTi" is a trademark of Valid Medical Technology Ltd. Test data verified under ISO 17025.

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