



Medical Applications

Titanium Alloy Bar

ASTM F 1295(Ti-6Al-7Nb)

FEATURES	Excellent Strength to density Ratio , Good Biocompatibility , Strong Corrosion resistance , Excellent fatigue Strength & Crack resistance
END USE	Surgical Implants , Surgical Staple & Clip , Dental Implants , Orthopedic Pin & Screws , Springs , Orthodontic Appliance

ASTM F 1295		CHEMICAL COMPOSITION %									
Grade	N Max.	C Max.	H Max.	Fe Max.	O Max.	Ta Max.	Nb	Al	Residual %		Ti
									each	total	
Ti-6Al-7Nb	0.05	0.08	0.009	0.25	0.20	0.50	6.50-7.50	5.50-6.50	0.1	0.4	Bal.

ASTM F 1295		MECHANICAL PROPERTIES , ANNEALED					
Grade	Tensile Strength (Rm) Min.		Yield Strength (Rp) 0.2% Min.		Elongation , 4D % Min.	Area Reduction % Min.	
	ksi	MPa	ksi	MPa			
Ti-6Al-7Nb	130.5	900	116	800	10	25	

SIZE RANGE	Bar ϕ : 0.12" - 2.0" (3.0mm - 50.0mm)
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TOLERANCE	Peeled 0.8"-2.0" (20.0mm-50.0mm)	ISO h10 (h9)
	Ground & Polished 0.12"-0.86" (3.0mm-22.0mm)	ISO h7 (h6)
	<ul style="list-style-type: none"> · Surface finish Ra $\leq 0.8\mu\text{m}$ · Straightness Max.0.5m/m · End chamfering $\phi > 3.0\text{mm}$ 	

CRACK DETECTION On Request	<ul style="list-style-type: none"> · Eddy current crack test according to EN 10277-1 , Tab.1 Dia.$\phi < 2.00\text{mm}$ class 1 Dia.$\phi > 2.00\text{mm}$ class 3 · Ultrasonic Inspection ($\phi \geq 6\text{mm}$) : acc. to AMS-STD-2154 (2010-11) class AA
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GRAIN SIZE	· According to ETTC2 : A1-A7
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Contact us at info@appliedtitanium.com
to learn more about **ATA™ Titanium Alloy Bar _ F1295**

 **APPLIED TITANIUM**
www.appliedtitanium.com