



Medical Applications

Titanium Alloy Bar

ASTM F 1472(Ti-6Al-4V)

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 1472		CHEMICAL COMPOSITION %								
Grade	N Max.	C Max.	H Max.	Fe Max.	O Max.	Al	V	Residual %		Ti
								each	total	
Ti-6Al-4V ELI	0.05	0.08	0.015	0.30	0.20	5.50-6.75	3.50-4.50	0.1	0.4	Bal.

ASTM F 1472		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-4V ELI	135	930	125	860	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.ϕ <2.00mm class 1 Dia.ϕ >2.00mm 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 ETTTC2 : A1-A7
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Contact us at info@appliedtitanium.com
to learn more about **ATA™ Titanium Alloy Bar_ F1472**


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www.appliedtitanium.com