



Titanium Alloy Wire

ASTM F 1472

Medical Applications

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

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	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 % Min.	Area Reduction % Min.	
	ksi	MPa	ksi	MPa			
Ti-6Al-4V	135	930	125	860	10	25	

SIZE RANGE	Wire ϕ : 0.08" - 0.475" (2.0mm - 12.0mm)
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TOLERANCE	Peeled & Polished 0.315"-0.475" (8.0mm-12.0mm)	$\pm 0.002"$ (0.05mm)
	Drawn 0.235"-0.395" (6.0mm-10.0mm)	$\pm 0.016"$ (0.04mm)
	Drawn 0.080"-0.235" (2.0mm-6.0mm)	$\pm 0.008"$ (0.02mm)
	Tighter tolerance on request	

CRACK DETECTION On Request	· Eddy current crack test according to EN 10277-1 , Tab.1 Dia. ϕ <2.00mm class 1 Dia. ϕ >2.00mm class 3
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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 Wire _ F1472**

 **APPLIED TITANIUM**
www.appliedtitanium.com