



Industrial Applications

Titanium Alloy Wire

ASTM B 863

FEATURES	Excellent Strength to density Ratio (Weight Saving), Non-Magnetic , Strong Corrosion resistance, Good Corrosion Crack Resistance (ELI-Version)
END USE	Fasteners, Bicycle Parts , Offshore Components, Desalination Parts , Chemical Processing Parts , Pulp & Paper Parts , Valve, Fittings, Weld Wire

ASTM B863		CHEMICAL COMPOSITION %									
Grade	N Max.	C Max.	H Max.	Fe Max.	O Max.	Pd	Al	V	Residual %		Ti
									each	total	
Gr.5 Ti-6Al-4V	0.05	0.08	0.015	0.40	0.20	—	5.50-6.75	3.50-4.50	0.1	0.4	Bal.
Gr.23 Ti-6Al-4V ELI	0.03	0.08	0.0125	0.25	0.13	—	5.50-6.50	3.50-4.50	0.1	0.4	Bal.
Gr.7	0.03	0.08	0.015	0.30	0.25	0.12-0.25	—	—	0.1	0.4	Bal.

ASTM B863		MECHANICAL PROPERTIES , ANNEALED				
Grade	Tensile Strength (Rm) Min.		Yield Strength (Rp) 0.2% Min.		Elongation % Min.	
	ksi	MPa	ksi	MPa		
Gr.5 Ti-6Al-4V	130	895	120	828	10	
Gr.23 Ti-6Al-4V ELI	115	793	110	759	10	
Gr.7	50	345	40	275	18	

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**

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www.appliedtitanium.com