



Industrial Applications

Commercially Pure Titanium Wire

ASTM B 863

FEATURES	Excellent Strength to density Ratio (Weight Saving), Strong Corrosion resistance , Non-Magnetic
END USE	Optical Parts, Fasteners, Watch & Jewelry Parts, Weld Wire , Pulp & Paper Parts , Sporting Equipment , Fittings , Pump , Valve

ASTM B863		CHEMICAL COMPOSITION %						
Grade	N Max.	C Max.	H Max.	Fe Max.	O Max.	Residual %		Ti
						each	total	
C.P. Gr.1	0.03	0.08	0.015	0.20	0.18	0.1	0.4	Bal.
C.P. Gr.2	0.03	0.08	0.015	0.30	0.25	0.1	0.4	Bal.
C.P. Gr.3	0.05	0.08	0.015	0.30	0.35	0.1	0.4	Bal.
C.P. Gr.4	0.05	0.08	0.015	0.50	0.40	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	
C.P. Gr.1	35	240	20	138	20
C.P. Gr.2	50	345	40	275	18
C.P. Gr.3	65	450	55	380	18
C.P. Gr.4	80	550	70	483	15

SIZE RANGE	Wire ϕ : 0.08" - 0.475" (2.0mm - 12.0mm)	
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 ASTM E112 finer than 5
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Contact us at info@appliedtitanium.com
to learn more about **ATA™ CP Titanium Wire**

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