



Medical Applications

Commercially Pure Titanium Wire

ASTM F 67

FEATURES	Excellent Strength to density Ratio , Strong Corrosion resistance, Good Formability, Biocompatibility
END USE	Orthopedic appliance , Surgical & Dental Implants , Needles, Ligature clip , Sutures , woven mesh , Orthodontic appliance

ASTM F 67		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 F 67		MECHANICAL PROPERTIES , ANNEALED				
Grade	Tensile Strength (Rm) Min.		Yield Strength (Rp) 0.2% Min.		Elongation % Min.	
	ksi	MPa	ksi	MPa	≧ 0.125" (3.18mm)	Ø0.062"-0.125" (1.58-3.18mm)
C.P. Gr.1	35	240	25	170	24	15
C.P. Gr.2	50	345	40	275	20	12
C.P. Gr.3	65	450	55	380	18	10
C.P. Gr.4	80	550	70	483	15	8

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

CRACK DETECTION On Request	· Eddy current crack test according to EN 10277-1 , Tab.1 Dia.ø <2.00mm class 1 Dia.ø >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 _ F67**



www.appliedtitanium.com