



Industrial Applications

# Commercially Pure Titanium Bar ASTM B 348

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

ASTM B348		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 B348		MECHANICAL PROPERTIES , ANNEALED				
Grade	Tensile Strength (Rm)		Yield Strength (Rp) 0.2%		Elongation , 4D % Min.	Area Reduction % Min.
	Min.		Min.			
	ksi	MPa	ksi	MPa		
C.P. Gr.1	35	240	20	138	24	30
C.P. Gr.2	50	345	40	275	20	30
C.P. Gr.3	65	450	55	380	18	30
C.P. Gr.4	80	550	70	483	15	25

SIZE RANGE	Bar $\phi$ : 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"> <li>· Surface finish Ra <math>\leq 0.8\mu\text{m}</math></li> <li>· Straightness Max.0.5m/m</li> <li>· End chamfering <math>\phi &gt; 3.0\text{mm}</math></li> </ul>	

CRACK DETECTION On Request	<ul style="list-style-type: none"> <li>· Eddy current crack test according to EN 10277-1 , Tab.1</li> <li>  Dia.<math>\phi &lt; 2.00\text{mm}</math> class 1</li> <li>  Dia.<math>\phi &gt; 2.00\text{mm}</math> class 3</li> <li>· Ultrasonic Inspection (<math>\phi \geq 6\text{mm}</math>) : acc. to AMS-STD-2154 (2010-11) class AA</li> </ul>
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GRAIN SIZE	· According to :ASTM E112 finer than 5
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Contact us at [info@appliedtitanium.com](mailto:info@appliedtitanium.com)  
to learn more about **ATA™ CP Titanium Bar**

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TITANIUM**  
[www.appliedtitanium.com](http://www.appliedtitanium.com)