

ELGILOY Specialty Metals – Strip Products

CP Titanium Grade 4 / Ti 70

UNS R50700 W.Nr 3.7064

CP Titanium Grade 4 is the strongest of the Commercially Pure Titaniums. It is known for excellent corrosion resistance, good formability, and weldability.

Applications include aircraft components, heat exchangers, cryogenic vessels, and surgical hardware. Industries supplied include: Aerospace, chemical, medical, marine.

Density Modulus of Elasticity (E) Modulus of Rigidity (G)	O 0.40	C 0.08	sition N 0.05	ŀ	l	Ti		
Density Modulus of Elasticity (E) Modulus of Rigidity (G)	0.40	0.08		F	I	Ti		
Density Modulus of Elasticity (E) Modulus of Rigidity (G)			0.05					
Modulus of Elasticity (E) Modulus of Rigidity (G)	Ph	vsical Proper		0.02	150 Balance			
Modulus of Elasticity (E) Modulus of Rigidity (G)		Physical Properties						
Modulus of Elasticity (E) Modulus of Rigidity (G)			At 70°F			At 20°C		
Modulus of Rigidity (G)	Density		0.163 lb/in ³			4.51 g/cm ³		
<u> </u>	Modulus of Elasticity (E)		16.3 x 10 ³ ksi			112 GPa		
Cff:-!	Modulus of Rigidity (G)		5.9 x 10 ³ ksi			41 GPa		
Coefficient of Expansion		5.4 microinches/in°F (70-932°F)			9.7 μm/m-°C (20-500°C)			
Electrical Resistivity		21 μ ohm.in			53.3 μ ohm.cm			
Thermal Conductivity		12.60 Btu-in./ft. ² hr°F			21.79 W/m-K			
Applicable Specifications								
Strip and Foil	AMS 4902, ASTM B265							
Typical Mechanical Properties								
Condition	Heat Treatment		Tensile Stre	ngth		ested Operating Conditions		
Annealed	1290°F		80 ksi (550 min 100 ksi (689 typ	·		0°F to 1000°F (- 34°C to 540°C)		
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