



ELGILOY Specialty Metals – Strip Products

Titanium Grade 9 / Ti-3-2.5						UNS R56320 W.Nr 3.7194			
<p>Titanium Grade 9 is a near alpha, alpha-beta alloy. It offers much more strength than CP titanium, and unlike Ti-6-4 can be cold worked resulting in moderately high strength and good ductility. It is as weldable as the CP grades and has excellent resistance to corrosion.</p> <p>Industries supplied include: architecture, medical, marine, processing & chlorate manufacturing, dimensional stable anodes, and desalination.</p>									
Nominal Composition									
	Al	V	Fe	O	C	N	H	Y	Ti
min	2.50	2.00							
max	3.50	3.00	0.30	0.12	0.050	0.020	0.02	0.005	Balance
Physical Properties									
					At 70°F			At 20°C	
Density					0.162 lb/in ³			4.48 g/cm ³	
Modulus of Elasticity (E)					15.5 x 10 ³ ksi			107 GPa	
Modulus of Rigidity (G)					5.0 x 10 ³ ksi			35 GPa	
Coefficient of Expansion					4.4 microinches/in.-°F (70-932°F)			7.9 μm/m-°C (20-500°C)	
Electrical Resistivity					4.96 μ ohm.in			12.6 μ ohm.cm	
Thermal Conductivity					52.7 Btu-in./ft. ² hr.-°F			7.6 W/m-K	
Applicable Specifications									
Strip and Foil			ASTM B265, AMS 4989						
Typical Mechanical Properties – Spring Applications									
Condition	Heat Treatment			Tensile Strength			Suggested Operating Conditions		
Annealed	1200° - 1450°F			90 ksi (621 MPa) min 109 ksi (752 MPa) typ			-300°F to 1000°F (-184°C to 540°C)		
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