



Specialty Metals – Strip Products

Titanium Grade 7		UNS R52400 W.Nr 3.7235					
<p>Titanium Grade 7 has physical and mechanical properties similar to Grade 2. It has excellent welding and fabrication properties and is extremely resistant to corrosion especially from acids due to the addition of palladium.</p> <p>Industries supplied include: chemical processing, production equipment components.</p>							
Nominal Composition							
	Fe	O	C	N	H	Pd	Ti
max	0.30	0.25	0.08	0.03	0.0150	0.20	Balance
Physical Properties							
	At 70°F			At 20°C			
Density	0.163 lb/in ³			4.51 g/cm ³			
Modulus of Elasticity (E)	16.3 x 10 ³ ksi			112 GPa			
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		ASTM B265					
Typical Mechanical Properties							
Condition	Heat Treatment	Tensile Strength		Suggested Operating Conditions			
Annealed	1290°F	50 ksi (345 MPa) min 65 ksi (448 MPa) typ		-300°F to 1000°F (-184°C to 540°C)			
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