



Specialty Metals – Strip Products

Titanium Grade 7

UNS R52400
W.Nr 3.7235

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.

Industries supplied include: chemical processing, production equipment components.

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
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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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