## **ELGILOY** Specialty Metals – Strip Products

## **Titanium Grade 11**

UNS R52250 W.Nr 3.7225

Titanium Grade 11 has physical and mechanical properties similar to Grade 1. Due to the addition of palladium, it has enhanced corrosion resistance in crevices and reducing acid chloride environments. It has good ductility and cold formability, along with high impact toughness and excellent weldability.

Industries supplied include: chemical processing, chlorate manufacturing, desalination, and marine applications.

	от. 100 от <b>р</b> иот		p. 000000) 0	orate mandiacturi	ing, desamination, t	arra marme ap	pineacionis.
Nominal Composition							
	Fe	0	С	N	Н	Pd	Ti
max	0.20	0.18	0.08	0.03	0.0150	0.25	Balance
Physical Properties							
			At 70°F			At 20°C	
Density			0.163 lb/in <sup>3</sup>			4.51 g/cm <sup>3</sup>	
Modulus of Elasticity (E)			16.3 x 10 <sup>3</sup> ksi			112 GPa	
Modulus of Rigidity (G)			5.9 x 10 <sup>3</sup> 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. <sup>2</sup> hr°F			21.79 W/m-K	
			Applicabl	e Specifications			
Strip and Foil			ASTM B265				
		Typical N	lechanical Pro	perties – Spring	Applications		
Condition Heat Tre		atment Tensile Strength		Strength	Suggested Operating Conditions		
Annealed 129		)°F	35 ksi (240 MPa) min 50 ksi (345 MPa) typ		-300°F to 1000°F (-184°C to 540°C)		
For further information Contact:			Elgiloy Specialty Metals - Strip Products				
Email: Einfo@ELGILOY.COM			1565 Fleetwood Dr.			WWW.ELGILOY.COM	
Phone: 1.888.843.2350			Elgin, IL 60123 USA				