



# Specialty Metals – Strip Products

<b>CP Titanium Grade 2 / Ti 40</b>		<b>UNS R50400 W.Nr 3.7035</b>				
<p>CP Titanium Grade 2 combines excellent formability and moderate strength with superior corrosion resistance. Applications include aircraft skins and equipment, marine and chemical equipment, and cryogenic vessels. Industries supplied include: power generation, chemical processing, aerospace, and medical.</p>						
<b>Nominal Composition</b>						
	<b>Fe</b>	<b>O</b>	<b>C</b>	<b>N</b>	<b>H</b>	<b>Ti</b>
max	0.30	0.20	0.08	0.05	0.015 0	Balance
<b>Physical Properties</b>						
	<b>At 70°F</b>		<b>At 20°C</b>			
<b>Density</b>	0.163 lb/in <sup>3</sup>		4.51 g/cm <sup>3</sup>			
<b>Modulus of Elasticity (E)</b>	16.3 x 10 <sup>3</sup> ksi		112 GPa			
<b>Modulus of Rigidity (G)</b>	5.9 x 10 <sup>3</sup> ksi		41 GPa			
<b>Coefficient of Expansion</b>	5.4 microinches/in.-°F (70-932°F)		9.7 μm/m-°C (20-500°C)			
<b>Electrical Resistivity</b>	21 μ ohm.in		53.3 μ ohm.cm			
<b>Thermal Conductivity</b>	12.60 Btu-in./ft. <sup>2</sup> hr.-°F		21.79 W/m-K			
<b>Applicable Specifications</b>						
Strip and Foil	AMS 4902, ASTM B265					
<b>Typical Mechanical Properties</b>						
<b>Condition</b>	<b>Heat Treatment</b>	<b>Tensile Strength</b>	<b>Suggested Operating Conditions</b>			
Annealed	1290°F	70 ksi (485 MPa)	-300°F to 1000°F (-184°C to 540°C)			
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