



# Specialty Metals – Strip Products

## CP Titanium Grade 2 / Ti 40

UNS R50400  
W.Nr 3.7035

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.

### Nominal Composition

	Fe	O	C	N	H	Ti
max	0.30	0.20	0.08	0.05	0.015 0	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

### Applicable Specifications

Strip and Foil	AMS 4902, ASTM B265
----------------	---------------------

### Typical Mechanical Properties

Condition	Heat Treatment	Tensile Strength	Suggested Operating Conditions
Annealed	1290°F	70 ksi (485 MPa)	-300°F to 1000°F (-184°C to 540°C)

Phone: 1.888.843.2350

Elgiloy Specialty Metals - Strip Products

1565 Fleetwood Dr.  
Elgin, IL 60123 USA

[WWW.ELGILOY.COM](http://WWW.ELGILOY.COM)

**LIMITATION OF LIABILITY AND DISCLAIMER OF WARRANTY:**

The content in these data sheets is provided primarily by third-party melting mills and is provided for reference only. It is not intended for engineering or design.

Applications may be discussed, however, Elgiloy Specialty Metals does not recommend or endorse any material for any particular end use or application.

The data included in this data sheet are typical values and may vary.

Elgiloy Specialty Metals makes no representations or warranties, express or implied, as to the accuracy, completeness, condition, suitability, performance, fitness for a particular purpose, or merchantability of any information contained in any data sheet.

In no event will Elgiloy Specialty Metals be liable for any damages whatsoever arising from the use of the information included in the data sheets.