

## Products & Sizes

Coil	Sheet	Plate	Bar
0.016" - 0.125"	0.016" - 0.125"	0.250" - 0.500"	0.125" - 0.500"

## CP Grade 2 Chemical Composition

	Element	Min	Max
N	Nitrogen	-	0.03
C	Carbon	-	0.10
O	Oxygen	-	0.25
Fe	Iron	-	0.30
H	Hydrogen	-	0.0155
Ti	Titanium	-	Balance
-	Other	-	0.4

## Industry Standards

- DFARS Compliant

## Industry Applications

- Airframe Skins, Ductwork, Brackets, Galley Equipment
- Chemical Processing Condensers, Evaporators, Reaction Vessels
- Desalinization Plant Tubing and Tube Heaters
- Cryogenic Vessels
- Heat Exchangers
- Electroplating
- Gaskets
- Medical Devices

## Physical Properties

Physical Property	T (°F)	T (°C)	Value	Value (SI)
Density	-	-	0.1630 lb/in <sup>3</sup>	4.512 g/cm <sup>3</sup>
Beta Transus	1650-1700	899-927	-	-
Melting (liquidus) Point	3020-3040	1660-1671	-	-
Specific Heat	73	23	0.1250 Btu/°F	-
Electrical Resistivity	104	40	294.8 μΩ·in	7.5 μΩ·m
	210	99	24.0 μΩ·in	.61 μΩ·m
	606	319	39.4 μΩ·in	1.0 μΩ·m
Modulus of Elasticity	-	-	15.0 x 10 <sup>3</sup> ksi	10.3 x 104 MPa

## Mechanical Properties

Typical mechanical properties for CP Grade 2 titanium have an approximate Fatigue Limit Range for Smooth Axial Fatigue of R=0.1 - 275-345Mpa (40-50 ksi).

Room Temperature Mechanical Properties	UTS, ksi (MPa)	YS, ksi (MPa)	% EI	%RA
Specified Minimum Properties	50 (345)	40 (275)	20	30
Typical Properties	74-88 (510-605)	49-79 (335-545)	21-29	47-54