

Commercially Pure or C.P. Titanium in unalloyed. Grade 4 is the strongest of the C.P. grades, with a minimum yield strength of 480 MPa (70ksi) and has the highest allowable oxygen and iron content of the grades.

Nominal Composition %

Ni	Nitrogen - .05% max
C	Carbon - .08% max
O	Oxygen - .4% max
Fe	Iron - .5% max
H	Hydrogen - .015% max
Ti	Titanium - Balance
-	Other - .4% max

Percent by weight, maximum unless a range is listed.

Standard Inventory Specifications

- ASTM: B265, B348, F67
- AMS: 4901, 4921
- AMS-T: 9046A, 9047A
- MIL-T: 9046J, 9047G
- UNS R50700

Forms & Thicknesses Stocked

- Sheet & Coil - 0.012" – 0.08"
- Plate - 0.250" – 0.625"

Applications

- Airframe and aircraft engine components
- Corrosive waste disposal wells
- Marine and chemical processing and desalinization plants
- Pulp and paper production



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Features

- Excellent resistance to corrosion and corrosion fatigue
- High strength

Physical Properties

Properties	T (°F)	T (°C)	Value	Value (SI)
Density			0.1630 lb/in ³	4.512 g/cm ³
Beta Transus	1715-1765	935-963		
Alpha Transus	1635-1685	891-918		
Melting (liquidus) Point	0	1649-1671		
Specific Heat	73	23	0.1250 Btu/°F	
Electrical Resistivity	73	23(F)	3.93 μΩ·in	.100 μΩ·in
Modules of Elasticity			15.0 x 10 ³ ksi	10.3 x 10 ⁴ MPa

Mechanical Properties

Room Temperature Mechanical Properties	UTS Ksi (MPa)	YS Ksi (MPa)	%EI	%RA
Specified Properties	80 (550)	70 (480)	15	30
Typical Properties	95-100 (655-690)	70-92 (480-635)	20-25	38-51