TITANIUM Advanced Materials. Engineered for Performance.

Titanium Grade 2

Titanium | UNS: R50400 | EN: 3.7035 | ASTM: Grade 2

Commercially pure titanium, the industry workhorse. Fully resistant to seawater and oxidising chlorides with excellent formability and weldability.



Stock status: Mill indent - Typical lead time: 4 - 8 weeks mill indent

Key features

- Total seawater corrosion immunity
- 45% lighter than steel
- Readily welded and formed

Available forms & sizes

Form	Size range
Plates	1.5 - 100 mm thk, up to 2500 mm wide
Seamless Pipes & Tubes	1/2" - 24" NB, SCH 5S - SCH 160
Round Bars	6 - 500 mm dia
Flanges	1/2" - 48", 150# - 2500#
Fittings	1/2" - 48", SCH 10S - SCH 160
Sheets & Coils	0.4 - 6 mm thk, 1000 / 1219 / 1500 mm wide

Chemical composition (%)

Element	Min	Max
Ti	-	Balance
Fe	-	0.30
O	-	0.25
N	-	0.03

Mechanical properties

Property	Value	Unit
Yield Strength (0.2%)	275 min	MPa

Property	Value	Unit
Tensile Strength	345 min	MPa
Elongation	20 min	%

Physical properties

Property	Value	Unit
Density	4.51	g/cm3
Max Service Temperature	425	C

Standards

ASTM B265, ASTM B338, ASTM B348, ASTM B381

Equivalent grades

3.7035, R50400, Ti Gr2

Industries served

Desalination, Marine, Chemical Processing, Medical

Typical applications

- Desalination plate heat exchangers
- Seawater cooling circuits
- Chemical process vessels
- Marine fixtures

Live datasheet