



TITANIUM Gr. 2

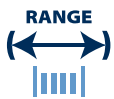
Key Features

- Good strength to weight ratio, maintained at high temperatures
- One of the softer and more ductile grades of pure Titanium
- Corrosion resistant in oxidizing and in mildly reducing environments
- Good formability

IMPORTANT

We will manufacture to your required mechanical properties.

key advantages to you, *our customer*



0.025mm to 21mm
(.001" to .827")



Order 3m to 3t
(10 ft to 6000 Lbs)



Delivery:
within 3 weeks



Wire to your spec



E.M.S available



Technical support

TITANIUM Gr. 2 available in:-

- Round wire
- Bars or lengths
- Flat wire

Packaging

- Coils
- Spools
- Bars or lengths



TITANIUM Gr. 2



Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM B348 ASTM F67	Good strength to weight ratio, maintained at high temperatures One of the softer and more ductile grades of pure Titanium	Aerospace Automotive Chemical Processing
N	-	0.03			
C	-	0.08	Designations	Corrosion resistant in oxidizing and in mildly reducing environments	
H	-	0.015			
Fe	-	0.25	W.Nr. 3.7035 UNS R50400 AWS 152	Good formability	
O	-	0.25			
Residuals	-	0.40			
Ti	BAL				

Density	4.51 g/cm ³	0.163 lb/in ³
Melting Point	1670 °C	3040 °F
Coefficient of Expansion	8.6 µm/m °C (20 - 100 °C)	4.8 x 10 ⁻⁶ in/in °F (70 - 212 °F)
Modulus of Rigidity	40 – 45 kN/mm ²	5800 – 6530 ksi
Modulus of Elasticity	105 – 120 kN/mm ²	15230 – 17400 ksi

Heat Treatment of Finished Parts					
Condition as supplied by Alloy Wire	Type	Temperature		Time (Hr)	Cooling
		°C	°F		
Annealed	Stress Relieve	540	1000	0.5 - 2	Air
Spring Temper	Stress Relieve	250	480	0.5	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm ²	ksi	°C	°F
Annealed	450 - 650	65 - 94	-200 to +400	-330 to +750
Spring Temper	650 - 950	94 - 138	-200 to +400	-330 to +750

The above tensile strength ranges are typical. If you require different please ask.