



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

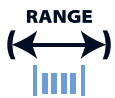
Corrosion resistant in oxidizing and in mildly reducing environments

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.