

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



Properties and chemical composition are very similar to Grade 2, but with tighter controls on O, Fe and H

One of the softer and more ductile grades of pure

Good strength to weight ratio

Corrosion resistant in oxidizing and mildly reducing environments

Good formability

IMPORTANT

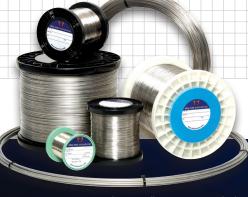
We will manufacture to your required mechanical properties.

TITANIUM Gr. 1 available in:-

Round wire

Packaging

- Coils
- Spools



Technical Datasheet AWS 150 Rev.2

TITANIUM Gr. 1



Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM B348	Properties and chemical composition are very	Aerospace
N	-	0.03	ASTM F67	similar to Grade 2, but with tighter controls on O, Fe and H contents One of the softer and more ductile grades of	Automotive Chemical Processing
С	-	0.08			
Н	-	0.01	Designations	pure Titanium	
Fe	-	0.20	W.Nr. 3.7025	Good strength to weight ratio	
0	-	0.18	UNS R50250 AWS 150	Corrosion resistant in oxidizing and mildly reducing environments	
Residuals	-	0.40		Good formability	
Ti	BAL				

Density	4.51 g/cm3	0.163 lb/in3	
Melting Point	1670°C	3040 °F	
Coefficient of Expansion	6 μm/m °C (20 - 100 °C) 4.8 x 10-6 in/in °F (70 - 212 °F)		
Modulus of Rigidity	40 - 45 kN/mm²	5800 - 6530 ksi	
Modulus of Elasticity	105 - 120 kN/mm²	15230 - 17400 ksi	

Heat Treatment of Finished Parts							
Canadisian and annual and base Alliana Millian	Туре	Temperature		Time - (11-)	Caalin n		
Condition as supplied by Alloy Wire		°C	°F	Time (Hr)	Cooling		
Annealed	Stress Relieve	480	900	0.5 - 2	Air		
Spring Temper	Stress Relieve	250	480	0.5	Air		

Properties							
Condition	Approx. tensile streng	gth	Approx. operating temperature				
Condition	N/mm²	ksi	°C	°F			
Annealed	300 - 400	44 - 58	-200 to +400	-330 to +750			
Spring Temper	550 - 850	80 - 123	-200 to +400	-330 to +750			

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





