

## 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. 5 / 6Al4V available in:-

We will manufacture to your required mechanical properties.

Round wire

**IMPORTANT** 

- Bars or lengths
- Flat wire
- Shaped wire
- Rope/Strand

## **Packaging**

- Coils
- Spools
- Bars or lengths



## TITANIUM Gr. 5 / 6AI4V



Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	AMS 4928	Good tensile properties at ambient	Aerospace
N	-	0.05	ASTM B348 ASTM F136	temperatures compared with other titaniums Good creep resistance up to approx 300 °C	Jewellery
С	-	0.10	ASTINITION	(570 °F) Outstanding resistance to corrosion in	Chemical Springs Bolts and various fasteners
Н	-	0.01	Designations		
Fe	-	0.40	W.Nr. 3.7165	most natural and many industrial process environments	Doits and various fasteriers
0	-	0.20	W.Nr. 3.7164 UNS R56400	Approx half the density of nickel alloys	
Al	5.50	6.75	AWS 151		
V	3.50	4.50			
Ti	Ti BAL				

Density	4.42 g/cm <sup>3</sup>	0.16 lb/in <sup>3</sup>	
Melting Point	1650 ℃ 3000 °F		
Coefficient of Expansion	9.0 μm/m °C (20 – 100 °C)	5.0 x 10 <sup>-6</sup> in/in °F (70 – 212 °F)	
Modulus of Rigidity	40 – 44 kN/mm²	5800 – 6380 ksi	
Modulus of Elasticity	105 – 120 kN/mm²	15230 – 17405 ksi	

Heat Treatment of Finished Parts							
Condition or complied by Alley Wive	Туре	Temperature		Time - (11-)	Caalin -		
Condition as supplied by Alloy Wire		°C	°F	Time (Hr)	Cooling		
Annealed	Stress Relieve	480	900	2	Air		
Spring Temper	Stress Relieve	250	480	0.5	Air		

Properties							
Condition	Approx. tensile strength		Approx. operating temperature				
Condition	N/mm²	ksi	°C	°F			
Annealed	950 – 1100	138 – 159	-200 to +400	-330 to +750			
Spring Temper	1100 – 1400	159 – 203	-200 to +400	-330 to +750			

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







