



STAINLESS STEEL 316 Ti



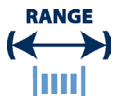
Key Features

Better corrosion resistance at higher temperatures than 316 stainless

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

STAINLESS STEEL 316 Ti available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths



STAINLESS STEEL 316 Ti

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM A240 ISO 15156-3 (NACE MR0175) BS EN 10088-3 Designations W.Nr. 1.4571 UNS S31635 AWS 168	Better corrosion resistance at higher temperatures than 316 stainless	Chemical processing Springs Fasteners Thread inserts Wire mesh
C	-	0.08			
Si	-	1.00			
Mn	-	2.00			
P	-	0.045			
S	-	0.03			
Cr	16.50	18.50			
Mo	2.00	2.50			
Ni	10.50	13.50			
Ti	5 x C	0.70			
Fe	BAL				

Density	7.9 g/cm ³	0.285 lb/in ³
Melting Point	1375 °C	2500°F
Coefficient of Expansion	16.5 µm/m °C (21 – 100 °C)	9.11 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	74 kN/mm ²	10730 ksi
Modulus of Elasticity	193 kN/mm ²	27990 ksi

Heat Treatment of Finished Parts					
Condition as supplied by Alloy Wire	Type	Temperature		Time (Hr)	Cooling
		°C	°F		
Annealed or Spring Temper	Stress Relieve	250	480	1	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm ²	ksi	°C	°F
Annealed	<800	<116	-200 to +300	-330 to +570
Spring Temper	1200 – 1600	174 – 232	-200 to +300	-330 to +570

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