



STAINLESS STEEL 316

Key Features

Better corrosion resistance and non-magnetic properties than 302 & 304 stainless

Better pitting and crevice corrosion resistance than 302 & 304 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 available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths





STAINLESS STEEL 316

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM A313	Better corrosion resistance and non-magnetic	More suited to Marine, Food
С	-	0.07	ASTM A580 BS 970	properties than 302 and 304 stainless	and Medical applications than 302 and 304 stainless
Mn	-	2.00	BS 2056	Better pitting and crevice corrosion resistance than 302 and 304 stainless	Food processing
Р	-	0.045	Designations		Springs
S	-	0.03	W.Nr. 1.4401		Engineered components
Si	-	1.00	W.Nr. 1.4404		Wire mesh
Cr	16.00	18.50	UNS S31600 AWS 162		Wire cloth
-			AW3 102		Hose braiding
Ni	9.50	13.00			
Мо	2.00	2.50			

Density	8.0 g/cm ³	0.289 lb/in ³	
Melting Point	1398 ℃ 2555 °F		
Coefficient of Expansion	17.5 μm/m °C (20 – 100 °C)	9.7 x 10 ⁻⁶ in/in °F (70 – 212 °F)	
Modulus of Rigidity	70.3 kN/mm²	10196 ksi	
Modulus of Elasticity	187.5 kN/mm²	27195 ksi	

Heat Treatment of Finished Parts							
Condition of sumplied by Alley Wive	Tumo	Temperature		Time a (Un)	Cooling		
Condition as supplied by Alloy Wire	Туре	°C	°F	Time (Hr)	Cooling		
Annealed or Spring Temper	Stress Relieve	250	480	1	Air		

Properties							
Condition	Approx. tensile strength		Approx. operating temperature				
Condition	N/mm²	ksi	°C	°F			
Annealed	<800	<116	-200 to +300	-330 to +570			
Spring Temper	1300 – 2200	189 – 319	-200 to +300	-330 to +570			

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