



STAINLESS STEEL 1.4310

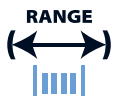
Key Features

Good mechanical properties and corrosion resistance
Capable of high tensile strength following cold work

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 1.4310 available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths



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Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	BS EN 10088-3 DIN EN 10270-3 Designations W.Nr. 1.4310 UNS S30100 AWS 131	Good mechanical properties and corrosion resistance Capable of high tensile strength following cold work Magnetic following cold work	Springs and high strength components Engineered components Chemical processing Electronic equipment
C	0.05	0.12			
Mn	-	2.00			
P	-	0.045			
S	-	0.015			
Si	-	2.00			
Cr	16.00	19.00			
Ni	6.00	9.50			
N	-	0.11			
Mo	-	0.80			
Fe	BAL				

Density	7.90 g/cm ³	0.285 lb/in ³
Melting Point	1420 °C	2590 °F
Coefficient of Expansion	17.6 µm/m °C (20 – 100°C)	9.8 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	76 kN/mm ²	11000 ksi
Modulus of Elasticity	190 kN/mm ²	28000 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 - 400	480 - 750	1	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm ²	ksi	°C	°F
Annealed	600 – 800	87 – 116	-200 to +300	-330 to +570
Spring Temper	1600 – 2200	189 – 319	-200 to +300	-330 to +570

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