



INCONEL® 625

Key Features

- Excellent corrosion resistance in a wide range of corrosive media
- Especially resistant to pitting and crevice corrosion
- Good for sea water applications

IMPORTANT
We will manufacture to your required mechanical properties.

key advantages to you, our customer

RANGE
0.025mm to 21mm
(.001" to .827")

3m 3t
Order 3m to 3t
(10 ft to 6000 Lbs)

DELIVERY
3
WEEKS
Delivery: within 3 weeks

Wire to your spec

E.M.S available

HOW CAN I HELP?
Technical support

INCONEL® 625 available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths



*Trade name of Special Metals Group of Companies.

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	AMS 5666 ASTM B446 BS 3076 NA 21 ISO 15156-3 (NACE MR 0175) Designations W.Nr. 2.4856 UNS N06625 AWS 012	Excellent corrosion resistance in a wide range of corrosive media Especially resistant to pitting and crevice corrosion Good for sea water applications	Marine Industries Aerospace Industries Chemical Processing Nuclear Reactors Pollution Control
C	-	0.10			
Mn	-	0.50			
Si	-	0.50			
P	-	0.015			
S	-	0.015			
Cr	20.00	23.00			
Co	-	1.00			
Mo	8.00	10.00			
Fe	-	5.00			
Al	-	0.40			
Ti	-	0.40			
Ni	58.00	-			
Nb/Cb	3.15	4.15			
Ta	-	0.05			
Cu	-	0.50			

Density	8.44 g/cm ³	0.305 lb/in ³
Melting Point	1350 °C	2460 °F
Coefficient of Expansion	12.8 µm/m °C (20 – 100 °C)	7.1 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	79 kN/mm ²	11458 ksi
Modulus of Elasticity	205.8 kN/mm ²	29849 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	260 – 370	500 – 700	0.5 – 1	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm ²	ksi	°C	°F
Annealed	800 – 1000	116 – 145	-200 to + 340	-330 to + 645
Spring Temper	1300 – 1600	189 – 232	up to + 200	up to + 395

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