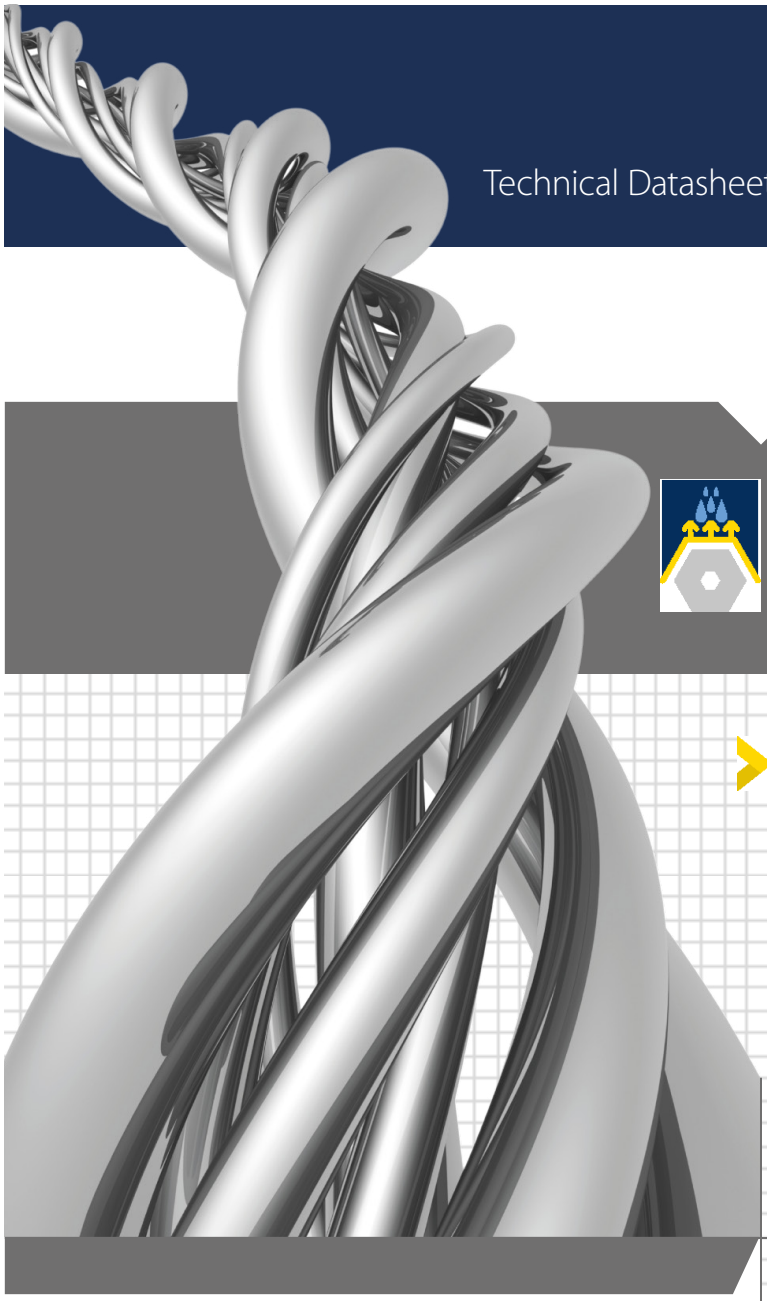


INCONEL® 625

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

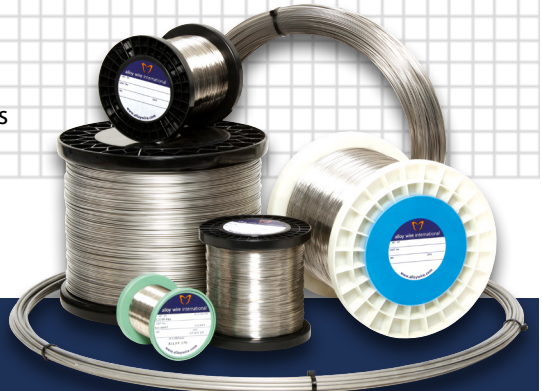
HOW CAN I HELP?
Technical support

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.

Technical Datasheet **AWS 012 Rev.2**

INCONEL® 625

alloy wire international

Chemical Composition		
Element	Min %	Max %
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

Specifications

AMS 5666
ASTM B446
BS 3076 NA 21
ISO 15156-3
(NACE MR 0175)

Designations

W.Nr. 2.4856
UNS N06625
AWS 012

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Typical Applications

Marine Industries
Aerospace Industries
Chemical Processing
Nuclear Reactors
Pollution Control

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	< 1050	< 152	-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.

Narrowboat Way, Hurst Business Park, Brierley Hill, West Midlands, DY5 1UF, UK
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