



**Inconel\* 625**





## Introducing Inconel\* 625

Nickel-chromium alloy 625 (W. Nr. 2.4856) is used for its high strength and excellent corrosion resistance. The combination of its elements are responsible for its superior resistance to a wide range of corrosive environments. Oxidation and carburization are found in high temperature environments, something alloy 625 performs well in.

\*Trade names of Special Metals Group of Companies



Grade Names	
Grade	Alloy 625
Werkst.	2.4856
UNS	N06625
AWS	012

Applicable Standards	
AMS	5666
ASTM	B446
BS	3076:1989 (NA21)
ISO	15156-3
NACE	MR0175

### Chemical Analysis

	C	Mn	Si	P	S	Cr	Co	Mo	Fe	Al	Ti	Ni	Nb/Cb	Ta	Cu
Min %	-	-	-	-	-	20.00	-	8.00	-	-	-	58.00	3.15	-	-
Max %	0.10	0.50	0.50	0.015	0.015	23.00	1.00	10.00	5.00	0.40	0.40	-	4.15	0.05	0.50

### Tensile Strengths

Condition	Tensile
Annealed	800 – 1000 N/mm <sup>2</sup>
Spring Temper	1300 – 1600 N/mm <sup>2</sup>

### Available in

Round Wire	0.08 mm (0.00315") to 12.00 mm (0.472" dia.)
Profile Wire	Up to 45 mm <sup>2</sup> area in any shape

### Packaging

Spools	To customers requirements
Coils	0.50 kg coils through to 100+
Cut Lengths	10 mm to 10 metres

## Typical Applications

- + Aerospace
- + Marine Environments
- + Springs Industry
- + Tying Wire
- + Chemical Processing

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