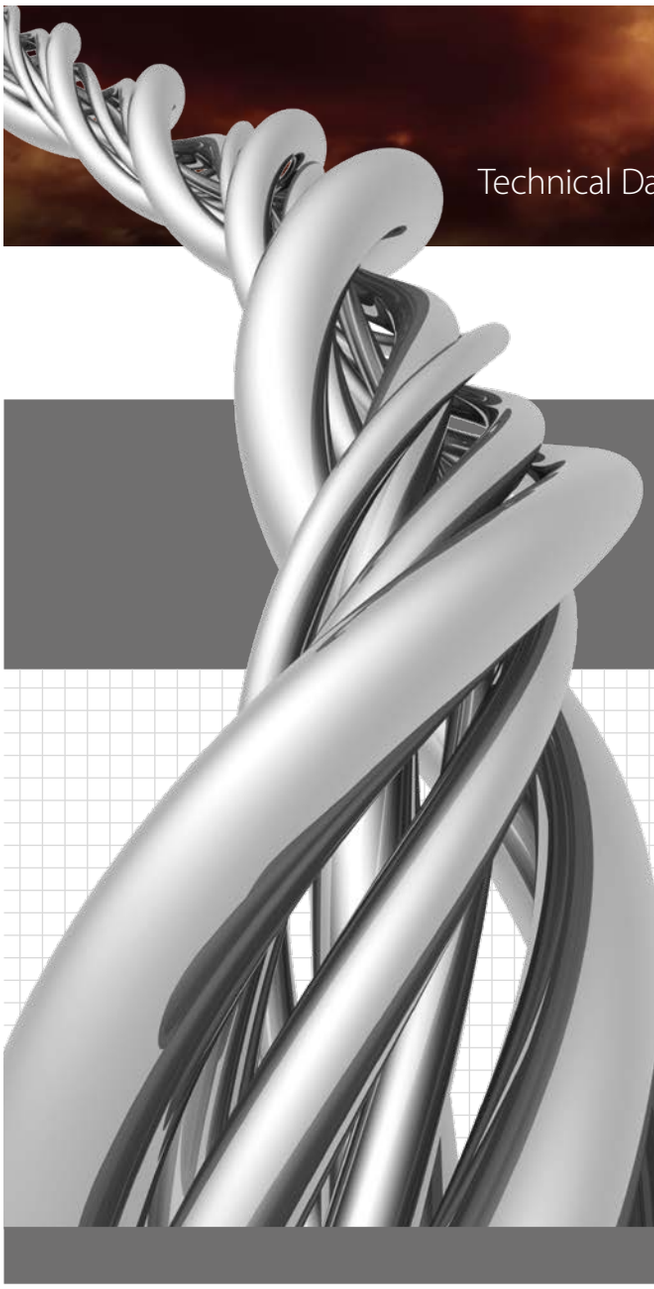
Technical Datasheet **AWS 010 Rev.1**

alloy wire international



INCONEL® 600

Key Features

Good Oxidation Resistance

Good Corrosion Resistance at high temperatures

****High temperature static 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
(10ft to 6000Lbs)

DELIVERY 3 WEEKS
Delivery:
within 3 weeks

Wire to your spec

E.M.S available

HOW CAN I HELP?
Technical support

INCONEL® 600 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.

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alloy wire international

Chemical Composition		
Element	Min %	Max %
Ni	72.00	-
Cr	14.00	17.00
Fe	6.00	10.00
Mn	-	1.00
C	-	0.10
Cu	-	0.50
Si	-	0.50
S	-	0.015
P	-	0.04
Co	-	1.00
Nb/Cb	-	1.00
Ti	-	0.50
Ta	-	0.05
Al	-	0.35

Specifications

AMS 5665
AMS 5687
ASTM B166
BS 3075 NA 14
BS 3076 NA 14
DTD 328A
QQ-W-390

Designations

W.Nr. 2.4816
UNS N06600
AWS 010

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**High temperature static applications

Typical Applications

Furnace Components
Chemical Processing
Food Processing
Nuclear Engineering

Density	8.47 g/cm^3	0.306 lb/in^3
Melting Point	1413°C	2575 °F
Coefficient of Expansion	13.3 µm/m °C (20 – 100 °C)	7.4 x 10^{-6} in/in °F (70 – 212 °F)
Modulus of Rigidity	75.6 kN/mm^2	10965 ksi
Modulus of Elasticity	206 kN/mm^2	29878 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	460	860	1	Air

Properties

Condition	Approx. tensile strength		Approx. operating temperature depending on load** and environment	
	N/mm^2	ksi	°C	°F
Annealed	600 – 850	87 – 123	-200 to +1000	-330 to +1830
Spring Temper	900 – 1450	131 – 210	-200 to +1000	-330 to +1830
Slight magnetism may occur below 120 °C (184 °F)				

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

****Static applications** = *still/fixed/motionless/rigid*

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