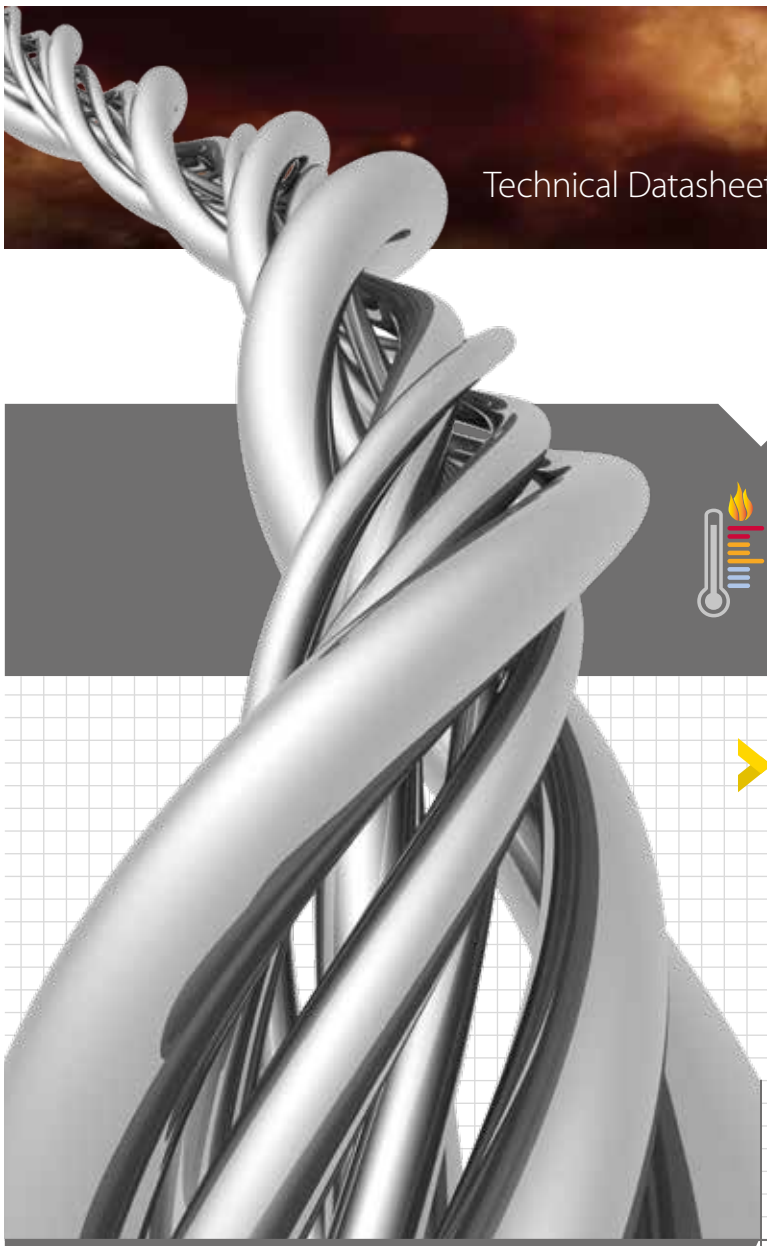
alloy wire® international



NIMONIC® 75

Key Features

Good corrosion resistance

Good heat resistance

****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
(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

NIMONIC® 75 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 032 Rev.2**

NIMONIC® 75

alloy wire international

Chemical Composition		
Element	Min %	Max %
C	0.08	0.15
Si	-	0.30
Mn	-	1.00
S	-	0.15
Co	-	5.00
Cr	19.00	21.00
Cu	-	0.50
Fe	-	5.00
Pb	-	0.005
Ti	0.2	0.50
P	-	0.015
Al	-	0.40
Ni	BAL	

Specifications

BS HR 5
BS HR 504

Designations

W.Nr. 2.4951
W.Nr. 2.4630
UNS N06075
AWS 032

Key Features

Good corrosion resistance
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**High temperature static applications

Typical Applications

Aerospace fasteners

Density	8.37 g/cm^3	0.302 lb/in^3
Melting Point	1380 °C	2520 °F
Coefficient of Expansion	11.0 µm/m °C (20 – 100 °C)	6.1 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	450 – 470	840 – 880	0.5 – 1	Air

Properties				
Condition	**Approx. tensile strength**		**Approx. operating temperature depending on load** and environment**	
	N/mm^2	**ksi**	**°C**	**°F**
Annealed	<800	<116	-200 to +1000	-330 to +1830
Spring Temper	1200 – 1500	174 – 218	-200 to +1000	-330 to +1830

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

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

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