



## NIMONIC® 75



### Key Features

Good corrosion resistance

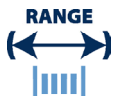
Good heat resistance

\*\*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")



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



Delivery:  
within 3 weeks



Wire to your spec



E.M.S available



Technical support

### NIMONIC® 75 available in:-

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

### Packaging

- Coils
- Spools
- Bars or lengths





Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	BS HR 5 BS HR 504  <b>Designations</b>  W.Nr. 2.4951 W.Nr. 2.4630 UNS N06075 AWS 032	Good corrosion resistance Good heat resistance **High temperature static applications	Aerospace fasteners
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				

<b>Density</b>	8.37 g/cm <sup>3</sup>	0.302 lb/in <sup>3</sup>
<b>Melting Point</b>	1380 °C	2520 °F
<b>Coefficient of Expansion</b>	11.0 µm/m °C (20 – 100 °C)	6.1 x 10 <sup>-6</sup> in/in °F (70 – 212 °F)
<b>Modulus of Rigidity</b>	75.6 kN/mm <sup>2</sup>	10965 ksi
<b>Modulus of Elasticity</b>	206 kN/mm <sup>2</sup>	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 <sup>2</sup>	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