



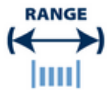
INCONEL® 617

Key Features

Similar high temperature resistance to INCONEL® 600/601 with improved strength, while offering comparable corrosion resistance to INCONEL® 625

IMPORTANT
We will manufacture to your required mechanical properties.

key advantages to you, our customer



0.025mm to 21mm
(.001" to .827")



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



Delivery:
within 2 weeks



Wire to your spec



E.M.S available



Technical support

INCONEL® 617 available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths



INCONEL® 617



Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max	ASTM B166 ASTM B168 AMS 5887 AMS 5889 ISO 9724 ISO 6208 DIN EN 17753 Designations UNS N06617 W.Nr. 2.4663 NiCr22Co12Mo9	Similar high temperature resistance to INCONEL® 600/601 with improved strength, while offering comparable corrosion resistance to INCONEL® 625 Exceptional combination of elevated temperature strength and corrosion resistance in oxidising and reducing environments **High temperature static applications	Aerospace Components Land Based Gas Turbines Power Generation Acid Processing Petro- Chemical Processing Springs
Ni	44.5	% -			
Cr	20	24.00			
Co	10	15			
Mo	8	10			
Al	0.8	1.50			
C	0.05	0.15			
Fe	-	3			
Mn	-	1			
Si	-	1.00			
S	-	0.015			
Ti	-	0.6			
Cu	-	0.5			
B	-	0.006			

Density	8.36 g/cm ³	0.302 lb/in ³
Melting Point	1330 - 1380 °C	2430 - 2510 °F
Coefficient of Expansion	11.6 gm/m °C (20 - 100 °C)	7.0 x 10 ⁻⁶ in/in °F (70 - 212 °F)
Modulus of Rigidity	81 kN/mm ²	11.8 ksi
Modulus of Elasticity	212.0 kN/mm ²	30700 ksi

Properties				
Condition	Approx. tensile strength		Approx. operating temperature depending on load** and environment	
	N/mm ²	ksi	°C	°F
Annealed	<1150	<167	Up to 1100	Up to 2012
Spring Temper	1300 – 1600	190 – 230	Contact Alloy Wire Technical Department	

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

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