



MONEL[®] 400

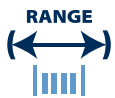
➤ **Key Features**

- Excellent corrosion resistance in a wide range of acidic & alkaline environments
- Especially suitable for reducing conditions
- Good ductility & thermal conductivity
- Good for sea water applications

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
(10 ft to 6000 Lbs)



Delivery:
within 3 weeks



Wire to your spec



E.M.S available



Technical support

MONEL[®] 400 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.

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	AMS 4730 ASTM B164 BS 3075 NA 13 BS 3076 NA 13 DTD 204B ISO 15156-3 (NACE MR 0175) QQ-N-281	Excellent corrosion resistance in a wide range of acidic & alkaline environments Especially suitable for reducing conditions Good ductility and thermal conductivity Good for sea water applications	Marine Engineering Chemical Processing Hydro-carbon Processing Heat Exchangers Valves Pumps
C	-	0.30			
Si	-	0.50			
Mn	-	2.00			
S	-	0.024			
Cu	28.00	34.00			
Fe	-	2.50	W.Nr. 2.4361		
Ni+Co	63.00	70.00	W.Nr. 2.4360		
Co	-	2.0	UNS N04400		
			AWS 040		

Density	8.8 g/cm ³	0.318 lb/in ³
Melting Point	1350 °C	2460 °F
Coefficient of Expansion	13.9 µm/m °C (20 – 100 °C)	7.7 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	65.3 kN/mm ²	9471 ksi
Modulus of Elasticity	173 kN/mm ²	25092 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	300 – 320	570 – 610	0.5 – 1	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm ²	ksi	°C	°F
Annealed	<600	<87	-200 to +230	-330 to +445
Spring Temper	800 – 1100	116 – 160	-200 to +230	-330 to +445

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