

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.

Technical Datasheet AWS 040 Rev.2 MONEL 400



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

Density	8.8 g/cm ³	0.318 lb/in ³	
Melting Point	1350 ℃	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/mm²	9471 ksi	
Modulus of Elasticity	173 kN/mm²	25092 ksi	

Heat Treatment of Finished Parts							
Condition or complied by Alley Wive	Туре	Temperature		Time a (IIIa)	Cooling		
Condition as supplied by Alloy Wire		°C	°F	Time (Hr)	Cooling		
Annealed or Spring Temper	Stress Relieve	300 – 320	570 – 610	0.5 – 1	Air		

Properties							
Condition	Approx. tensile strength		Approx. operating temperature				
Condition	N/mm²	ksi	°C	°F			
Annealed	400 – 600	58 – 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.



