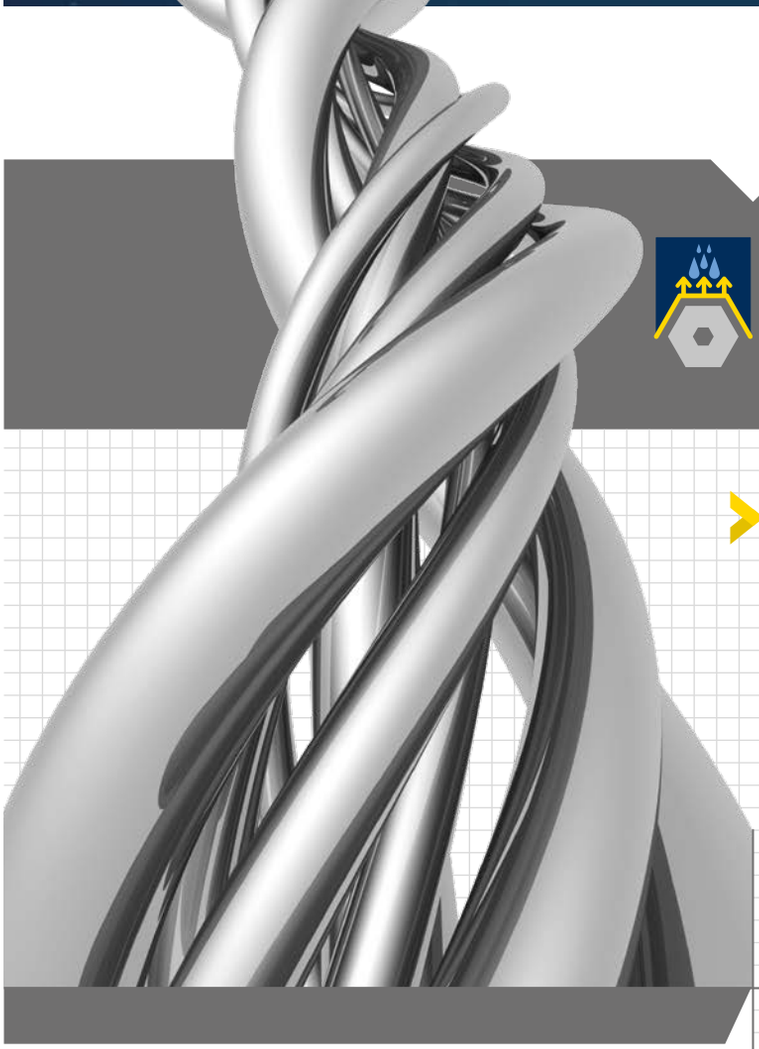
Technical Datasheet **AWS 040 Rev.1**

alloy wire® international



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*

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

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.

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Chemical Composition		
Element	Min %	Max %
C	-	0.30
Si	-	0.50
Mn	-	2.00
S	-	0.024
Cu	28.00	34.00
Fe	-	2.50
Ni+Co	63.00	70.00
Co	-	2.0

Specifications

AMS 4730
ASTM B164
BS 3075 NA 13
BS 3076 NA 13
DTD 204B
ISO 15156-3
(NACE MR 0175)
QQ-N-281

Designations

W.Nr. 2.4361
W.Nr. 2.4360
UNS N04400
AWS 040

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Typical Applications

Marine Engineering
Chemical Processing
Hydro-carbon Processing
Heat Exchangers
Valves
Pumps

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	400 – 600	58 – 87	-200 to +230	-330 to +445
Spring Temper	850 – 1050	123 – 152	-200 to +230	-330 to +445

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

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