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")

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.

Manufacturing quality, delivering reliability | **alloywire.com**

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/cm³	0.318 lb/in³
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/mm²	9471 ksi
Modulus of Elasticity	173 kN/mm²	25092 ksi

Heat Treatment of Finished Parts

Condition as supplied by Alloy Wire	Type	Temperature °C	Temperature °F	Time (Hr)	Cooling
Annealed or Spring Temper	Stress Relieve	300 – 320	570 – 610	0.5 – 1	Air

Properties

Condition	Approx. tensile strength N/mm²	Approx. tensile strength ksi	Approx. operating temperature °C	Approx. operating temperature °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.

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AS 9100
Aerospace & Defence

ISO 9001
Quality Management

ISO 14001
Environmental

ISO 45001
Health & Safety