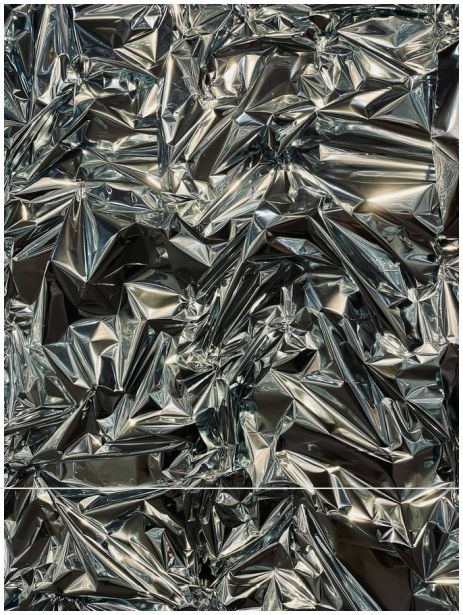
NICKEL ALLOYS

Advanced Materials. Engineered for Performance.

Monel 400

Nickel Alloys | UNS: N04400 | EN: 2.4360

Nickel-copper alloy with outstanding resistance to flowing seawater, hydrofluoric acid and alkalis, and total immunity to chloride stress corrosion cracking.



Stock status: Mill indent - Typical lead time: 4 - 8 weeks mill indent

Key features

- Superb flowing seawater resistance
- Immune to chloride SCC
- Retains toughness to cryogenic temperature

Available forms & sizes

Form	Size range
Plates	1.5 - 100 mm thk, up to 2500 mm wide
Seamless Pipes & Tubes	1/2" - 24" NB, SCH 5S - SCH 160
Round Bars	6 - 500 mm dia
Flanges	1/2" - 48", 150# - 2500#
Fittings	1/2" - 48", SCH 10S - SCH 160

Chemical composition (%)

Element	Min	Max
Ni	63.0	-
Cu	28.0	34.0
Fe	-	2.5
Mn	-	2.0

Mechanical properties

Property	Value	Unit
Yield Strength (0.2%)	170 min	MPa
Tensile Strength	480 min	MPa

Property	Value	Unit
Elongation	35 min	%

Physical properties

Property	Value	Unit
Density	8.80	g/cm3
Max Service Temperature	540	C

Standards

ASTM B127, ASTM B165, ASTM B164

Equivalent grades

2.4360, N04400, Alloy 400, NiCu30Fe

Industries served

Marine, Oil & Gas, Chemical Processing

Typical applications

- Seawater pumps and valves
- Hydrofluoric acid service
- Marine fixtures and fasteners
- Crude oil distillation towers

Live datasheet