

# 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.

## 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  |
| 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



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## Typical Applications

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

## Industries Served

Marine, Oil & Gas, Chemical Processing