



# BRODER METALS GROUP Alloy 400

Alloy 400 is a nickel-copper alloy that is resistant to sea water and steam at elevated temperatures., used widely for valves, fasteners and marine engineering.

## Alloy 400 Specifications and Stock

BS 3076 NA13

ASTM B164 N04400

ASTM B164 N04405

QQ-N-281

Broder Metals Group stock Alloy 400 in sizes 12.7mm dia to 250mm, however we are able to provide additional sizes with quick lead times on request.

## Applications

- Chemical and hydrocarbon processing equipment
- Valves
- Pumps
- Propeller shafts
- Oil and fresh water tanks
- Fittings
- Fasteners
- Heat exchangers

## Mechanical Properties—room temperature tensile properties

Condition	Yield Strength 0.2% offset		Tensile Strength		Elongation % in 2"	Elastic Modulus (E)	
	Psi	Mpa	Psi	Mpa		Psi	Gpa
Allealed	35000	240	75000	520	45	26 x 10 <sup>6</sup>	180
Hot rolled as rolled	45000	310	80000	550	30	26*10 <sup>6</sup>	180

Alloy 400 Chemical Composition by percent (max)							
C	Si	Mn	S	Ni	Cu	Fe	Ai
0.3	0.5	2.0	0.24	63.0-70.0	28.0-34.0	2.5	0.5

Alloy 400 is just is one of a range of corrosion resistant materials stocked by Broder Metals Group Ltd – please see our website for the full range stocked: [www.broder-metals-group.com](http://www.broder-metals-group.com)

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