



## 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

Alloy 400 is also referred to as:

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

+44 (0)114 232 9241



sales@broder-metals-group.com

www.broder-metals-group.com



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## Alloy 400 Chemical Composition

Carbon	0.3 Maximum
Silicon	0.5 Maximum
Manganese	2.0 Maximum
Sulfur	0.24 Maximum
Nickel	63.0 - 70.0
Copper	28.0 - 34.0
Iron	2.5 Maximum
Aluminium	0.5 Maximum

Alloy 400 is just one of a range of nickel alloys 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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[sales@broder-metals-group.com](mailto:sales@broder-metals-group.com)

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