



Nickel Alloy - ASTM B164-03 (2014)

SPECIFICATIONS

Commercial	Alloy 400
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63% (minimum) Nickel Alloy with Copper to ASTM B165

CHEMICAL COMPOSITION

ASTM B164-03 (2014) Alloy 400	
Element	% Present
Nickel (Ni)	63 max
Copper (Cu)	28 - 34
Iron (Fe)	2.5 max
Manganese (Mn)	2 max
Silicon (Si)	0.5 max
Carbon (C)	0.3 max
Cobalt (Co)	0.25 max
Sulphur (S)	0.24 max

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REVISION HISTORY

Datasheet Updated	26 February 2019
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MECHANICAL PROPERTIES

ASTM B164-03 (2014)	
Property	Value
Proof Stress	170-585 Min MPa
Tensile Strength	480-760 Min MPa
Elongation A50 mm	8-35 Min %

A wide range of Mechanical requirements applies according to size and the degree of cold or hot work that has been applied. For full details consult the published specification.

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

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