



Nickel Alloy - ASTM B164-03 (2014)

SPECIFICATIONS

Commercial Alloy 400

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

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.

CONTACT

Address: Wilsons Ltd
Nordic House
Old Great North Road
Huntingdon
PE28 5XN
Tel: +44 (0)1480 456421
Email: sales@wilsonsmetals.com
Web: www.wilsonsmetals.com

REVISION HISTORY

Datasheet Updated 26 February 2019

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.

Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards.

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied.

Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.