

Nickel Alloys

Alloy 200 Bar

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial

Alloy 200

Commercially pure nickel (99.6%) with good mechanical properties and excellent corrosion resistance.

CHEMICAL COMPOSITION

ASTM B161

Element	% Present
Nickel (Ni)	99.00 - 0.00
Iron (Fe)	0.00 - 0.04
Manganese (Mn)	0.00 - 0.35
Carbon (C)	0.00 - 0.15
Copper (Cu)	0.00 - 0.25
Silicon (Si)	0.00 - 0.35
Sulphur (S)	0.00 - 0.01

ALLOY DESIGNATIONS

- ASTM B 60
- ASME SB160
- DIN 17752
- ISO 9723

SUPPLIED FORMS

- Bar

APPLICATIONS

- Chemical processing and storage
- Processes using caustic alkalines
- Food Processing
- Fluorine generation
- Heat exchangers
- Tank heads
- Phenol storage & transportation
- Sodium hydroxide production
- Pressure vessels & vessel components

CHARACTERISTICS

- Excellent resistance to caustic alkalis and good mechanical properties over a wide temperature range
- Excellent resistance to caustic alkalis and good corrosion resistance in neutral and moderately reducing environments
- Good mechanical properties over a wide temperature range
- Good corrosion resistance in neutral and moderately reducing environments
- In the annealed condition Alloy 200 is similar in strength to mild steel

MECHANICAL PROPERTIES

ASTM B161

Property	Value
Proof Stress	80 Min MPa
Tensile Strength	380 Min MPa
Elongation A50 mm	40 Min %

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.