

Copper Alloys

C63200 (B150)

Datasheet Updated
05 August 2021

RANGE

Product Form	Size Range
Round Bar ASTM B150	1 1/2" - 5 1/4"

SPECIFICATIONS

Commercial	B150
US	C63200

American Naval alloy with improved corrosion resistance.

CHEMICAL COMPOSITION

Element	% Present
Iron (Fe)	3.50 - 4.30
Manganese (Mn)	0.00 - 0.02
Aluminium (Al)	8.70 - 9.50
Nickel (Ni)	4.00 - 4.80
Silicon (Si)	0.00 - 0.10
Lead (Pb)	0.00 - 0.02
Copper (Cu)	Balance

ALLOY DESIGNATIONS

- QQ-C-465
- ASTM-B-150
- ASTM-B-124
- MIL-B-24059
- UNS C63200

SUPPLIED FORMS

- Bar
- Rod

APPLICATIONS

- Bearing cages
- Marine fasteners
- Sleeve bearings
- Valve stems
- Shafts
- Cams
- Sea water valves
- Sea water pump bodies
- Bushings
- Sea water nuts and bolts

CHARACTERISTICS

- High resistance to corrosion and erosion
- Very good strength and toughness
- Excellent resistance to shock, wear and abrasion
- Low magnetic permeability
- High and low temperature performance
- Non sparking

MECHANICAL PROPERTIES

Property	Value
Elongation A50 mm	22 %
Hardness Rockwell B	94 HRB
Tensile Strength	680 MPa

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.