

Copper Alloys

BS B23 DTD197 Bar

Datasheet Updated
18 July 2022

RANGE

Product Form	Imperial Sizes	Metric Sizes
Round Bar	3/8" - 5 1/2"	120mm - 130mm

SPECIFICATIONS

Commercial	CA104
Aerospace	BSB23 DTD197

A high strength aluminium bronze used in the aerospace, marine and chemical industries.

CHEMICAL COMPOSITION

Element	% Present
Aluminium (Al)	10.00 - 11.00
Manganese (Mn)	0.00 - 0.30
Copper (Cu)	Balance
Iron (Fe)	Balance
Nickel (Ni)	Balance

ALLOY DESIGNATIONS

- BSB23/DTD197
- BS2872
- CA104
- EN12163/5/7
- CW307G
- DIN 17665/17672 CuAl10Ni5Fe4
- C63000
- C63020
- ASTM B150

SUPPLIED FORMS

- Bar

APPLICATIONS

- Valve and pump components
- Marine equipment
- Fasteners
- Engine components
- High temperature applications
- Heavy duty bushes and bearings
- Aerospace components

CHARACTERISTICS

- Excellent resistance to erosion & corrosion
- High strength & toughness
- Very good galling resistance
- Non-sparking
- Retention of mechanical properties at sub-zero temperatures
- High wear resistance

MECHANICAL PROPERTIES

EN 12163

Rod & Bar 10mm to 120mm Dia/AF

Property	Value
Proof Stress	320-600 MPa
Tensile Strength	700-850 MPa
Hardness Brinell	180-255 HB
Elongation A50 mm	12-25 %

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.