

Copper Alloys

C95500

Datasheet Updated
05 August 2021

SPECIFICATIONS

US C95500

Aluminium bronze alloy with added nickel to increase strength.

CHEMICAL COMPOSITION

Element	% Present
Iron (Fe)	3.00 - 5.00
Manganese (Mn)	0.00 - 3.50
Aluminium (Al)	10.00 - 11.50
Nickel (Ni)	3.00 - 5.50
Copper (Cu)	Balance

ALLOY DESIGNATIONS

- CDA 955
- ASTM B-148
- Alloy 9D
- ASTM B-271
- ASTM B-584

SUPPLIED FORMS

- Bar
- Forgings
- Rod

APPLICATIONS

- Window hardware
- Musical instruments
- Electrical hardware
- Fasteners
- Aircraft components
- Bearings
- Bushes
- Gears
- Glands
- Landing gear parts
- Machine parts
- Valves & components
- Worm wheels
- Marine hardware
- Shipbuilding

CHARACTERISTICS

- High strength & toughness
- Excellent corrosion resistance
- Retains strength at elevated temperatures
- Wear resistance
- Excellent machinability
- Good resistance to seawater
- Maintains colour in urban industrial sulphur polluted atmospheres

MECHANICAL PROPERTIES

Property	Value
Elongation A50 mm	10 %
Hardness Rockwell B	180-240 HRB
Tensile Strength	655 MPa
Hardness Brinell	192 HB
Shear Strength	44 MPa
Compressive Strength	895 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 S 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.