

Copper Alloys

CW307G (CA104) Bar

Datasheet Updated
05 August 2021

RANGE

Product Form	Size Range
Round Bar	3/8" - 5 1/2"

SPECIFICATIONS

Commercial	CA104
EN	CW307G

A wrought high strength aluminium bronze alloy offering excellent wear and corrosion resistance.

CHEMICAL COMPOSITION

Element	% Present
Iron (Fe)	4.00 - 4.50
Aluminium (Al)	8.50 - 11.00
Nickel (Ni)	4.00 - 5.00
Copper (Cu)	Balance
Manganese (Mn)	Balance

ALLOY DESIGNATIONS

- BS2874: CA104
- BSEN12163: CW307G
- BSB23/BS 2B23
- ASTM B150: C63200
- DTD197A
- ISO CuAl10Ni5Fe4

SUPPLIED FORMS

- Bar
- Rod

APPLICATIONS

- Marine valves
- Weapons handling systems
- Couplings
- Marine propeller shafts
- High strength fasteners
- Heavy-duty bushes & bearings
- Pump components
- Thrust washers
- Worm gears
- Engine components
- Valve seats
- Safety tool springs

CHARACTERISTICS

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

MECHANICAL PROPERTIES

Property	Value
Proof Stress	400-530 MPa
Tensile Strength	600-760 MPa
Elongation A50 mm	15-5 %
Hardness Vickers	170-220 HV

DISCLAIMER

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