THAMES STOCKHOLDERS
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CA104

ALUMINIUM BRONZE

Product Overview

One of the most commonly used aluminium bronzes, **CA104**, has excellent resistance to corrosion in chloride environments and saltwater erosion.

The alloy is also known for its excellent shock and wear resistance and high strength. CA104 also retains its properties at cryogenic temperatures. This grade is the wrought version of 10/5/5 aluminium bronze. It is often compared with BS1400 AB2 when a cast alternative is acceptable. The weldability of the alloy is also good and offers relatively good overall machinability.

Availability:

- Round bar, hexagonal bar, flat bar

Key Features

- Good resistance to shock loading
- Excellent corrosion & erosion resistance
- Good weldability
- Good galling resistance

Applications

- Marine hardware, engine components
- Heavy-duty bushes and bearings, worm gears
- Valve seats, pump components
- Thrust washers

* Chemical Composition (weight, %)

	Cu	Al	Ni	Fe	Mn	Sn	Pb	Si	Zn	Total Impurities
Min.	Rem	8.50	4.00	4.00						
Max.	Rem	11.00	5.50	5.50	0.50	0.10	0.05	0.20	0.40	0.50

* Properties as per BS 2874

* Mechanical Properties

Diameter	6-18mm incl.	>18-80mm incl.	>80mm
UTS	700 N/mm ²	700 N/mm ²	650 N/mm ²
0.2% Proof Strength	400 N/mm ²	370 N/mm ²	320 N/mm ²
Elongation	10%	12%	12%

* Properties as per BS 2874 (minimum unless stated)

Material Specifications:

BS B23, CW307G, DTD197A

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