THAMES STOCKHOLDERS
A Division of SMITHS

DTD 197A (BS B23)

BRONZE ALLOY

Product Overview

When commercial CA104 is not deemed fit for purpose, **DTD 197A (BS B23)** is another wrought alloy version of 10/5/5 aluminium bronze that deserves consideration.

DTD 197A is an aerospace engineering sector alloy. However, the material is also popular in the marine and chemical sectors due to the material's excellent corrosion and erosion resistance in seawater and other chloride environments. DTD 197A offers superior wear and shock resistance and is a high-strength alloy that retains its characteristics at cryogenic temperatures. The alloys machinability of the alloy is good to fair.

Availability:

- Round bar, hexagonal bar, flat bar

Key Features

- Excellent corrosion & erosion resistance
- Good resistance to shock loading
- Good weldability
- High wear and abrasion resistance

Applications

- Aerospace components, marine hardware
- High-strength fasteners, pump and valve components
- Heavy-duty bushes and bearings
- Engine components

* 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 2 B23

* Mechanical Properties

Diameter	6-18mm incl.	>18-80mm incl.	>80
UTS	700 N/mm ²	650 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%
Hardness (all sizes)	188 - 268 HV or 179 - 255 HBW		

* Properties as per BS 2 B23 (minimum unless stated)

Material Specifications:

BS B23, CA104 (Commercial), CW307G (Commercial)

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