

DTD 197A (BS B23)

BRONZE ALLOY

PRODUCT DESCRIPTION

Used when commercial CA104 is not deemed fit for purpose, **DTD 197A (BS B23)** is another wrought alloy version of 10/5/5 aluminium bronze. Developed for use in the aerospace engineering sector, the alloy is also popular in the marine and chemical sector due to the material's excellent corrosion and erosion resistance in sea water and other chloride environments. DTD 197A offers excellent wear and shock resistance and is a high strength alloy which also retains its characteristics at cryogenic temperatures.



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

AVAILABILITY

Round bar, hexagon, flat bar

MATERIAL SPECIFICATIONS

BS B23 | CA104 (Commercial)
CW307G (Commercial)

MACHINABILITY

Good / fair

CHEMICAL COMPOSITION (weight %)

	Cu	Al	Ni	Fe	Mn	Total Impurities
Min	Rem	8.50	4.00	4.00		
Max	Rem	11.00	5.50	5.00	0.50	0.50

MECHANICAL PROPERTIES

	6-18mm incl.	>18-80mm incl.	>80-100mm	>100mm (4")
Diameter				
UTS	700 N/mm ²	700 N/mm ²	695 N/mm ²	650 N/mm ²
0.2% Proof Strength	400 N/mm ²	385 N/mm ²	385 N/mm ²	320 N/mm ²
0.1% Proof Strength	385 N/mm ²	385 N/mm ²	385 N/mm ²	310 N/mm ²
Elongation	15%	15%	15%	15%
Hardness	188-268 or 179-255			