ALUMINIUM BRONZE

AB2 - CC333G



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AB2 bronze, also known as BS1400 AB2, is a high-strength cast aluminium bronze alloy with notable resistance to corrosion, cavitation and erosion, particularly in marine environments. AB2 bronze offers high resistance to wear and abrasion, which is beneficial in applications involving heavy loads. It is the cast version of the 10/5/5 aluminium bronze and is usually compared with CA104 when a wrought alternative is required.

KEY FEATURES

- Excellent corrosion resistance
- Good strength and toughness
- High wear and abrasion resistance
- Good shock resistance
- Non-sparking

CHEMICAL PROPERTIES									
Copper (Cu)	Aluminium (Al)	Nickel (Ni)	Iron (Fe)	Manganese (Mn)	Zinc (Zn)	Tin (Sn)	Silicone (Si)	Lead (Pb)	
76-83%	8.5-10.5%	4-6%	4-5.5%	3%	0.5%	0.1%	0.1%	0.03%	

MECHANICAL PROPERT	IES
Tensile strength (N/mm²)	650
Yield strength (N/mm²)	250
Elongation (%)	13
Hardness - Vickers (HV)	160
Hardness - Brinell (HB) max	-

PHYSICAL P	PROPERTIES	
Density (kg/m³)	7640	
Modulus of elasticity (Gp	oa)	77-120
	0-100°C (µm/m/°C)	16.2
Mean coefficient of	0-350°C (µm/m/°C)	16.8
thermal expansion	0-538°C (µm/m/°C)	17.4
Thermal	at 100°C (W/m.K)	35.9
conductivity	at 500°C (W/m.K)	26.8
Specific Heat 0-100°C (J	-	
Electrical conductivity (I	7.1	
Melting point (°C)	1060	

MARKET SECTORS



Marine Equipment

Hardware, propeller hubs, sea water valves, propeller blades



Oil & Gas Industry

Valve bodies, bushings, components



Components exposed to high temperatures



Chemical Processing

Gears, pumps, machinery



Applications in explosive environments



Heavy duty bearings, worm

Heavy duty bearings, worm wheels, worms



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