

MATERIAL DATA SHEET

NICKLE ALUMINIUM BRONZE – AB2 – C95810- GRADE PBAB2

Typical Applications Suitable for bearings, pumps, nuts & bolts and marine components. Also good for gears with heavy loads and slow speeds when there is good lubrication and alignment required. Due to its superior corrosion resistance to marine conditions, high strength, good wearing and erosion resistance, AB2 is an alloy that is used for a wide range of marine applications. By annealing components prior to use, corrosion resistance can be further enhanced.

Chemical Composition %

Element		Nominal
Copper	Cu	76.0 – 83.0
Aluminium	Al	8.5 – 10.5
Iron	Fe	4.0 – 5.5
Nickel	Ni	4.0 – 6.0
Manganese	Mn	3.0 max
Tin	Sn	0.1max
Lead	Pb	0.03 max
Zinc	Zn	0.50 max
Silicone	Si	0.10 max

Mechanical Properties

Ultimate Tensile Strength	650 MPa minimum
Elongation	13 % minimum
Nominal Hardness	160 BHN minimum
Machinability	50 % (free machining brass = 100%)

Similar Standards

C95800, BS 1400 – AB2 and ALBC3