

Aluminium Bronze - CC333G / AB2

Round Bar

Properties

Additional Information

CC333G has similarities to the following standard designations and specification

BS1400: AB2

ASTM B505: C95800

Key Features

Excellent resistance to erosion & corrosion

Good Strength & toughness

Resistance to shock loading

Non-sparking

Retention of properties at cryogenic temperatures

High Wear Resistance

Chemical Properties

Element	Chemical Composition %
Copper (Cu)	Rem
Aluminium (Al)	8.8 - 10.0 max
Nickel (Ni)	4.0 - 5.50 max
Iron (Fe)	4.0 - 5.50 max
Manganese (Mn)	3.00 max
Zinc (Zn)	0.50 max
Tin (Sn)	0.10 max
Lead (Pb)	0.05 max
Silicon (Si)	0.10 max
Total Imps	0.30 max

Minimum Mechanical Properties - BS1400: AB2

Property	Value
Tensile Strength (N/mm ²)	640
0.2% Proof Stress (N/mm ²)	250
Elongation (%)	13

Physical Properties

Property	Value
Density	7.64 g/cm ³
Melting Point	1060 °C
Thermal Conductivity	35.9W/m °C
Coefficient of Thermal Expansion 20-300 °C	16.2 x 10 ⁻⁶
Electrical Conductivity 20 °C	7.1% IACS

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