



CuAl8Fe3

Aluminum Bronze Alloy

Standardization:
Aluminum Bronze

ALLOY DESCRIPTION

An Aluminum Bronze alloy offering high mechanical strength and exceptional corrosion resistance against saltwater/acids. Equipped with excellent resistance to dynamic loads and wear.

CHEMICAL COMPOSITION (% WEIGHT)

Fe (%)	Si (%)	Mn (%)	Ni (%)	Al (%)	Pb (%)	Zn (%)	Sn (%)
1.5 - 3.5	max 0.2	max 1	max 1	6.5 - 8.5	max 0.05	max 0.5	max 0.1

MECHANICAL PROPERTIES (MIN.)

Elongation (A)

30

Hardness (HB)

110

PHYSICAL PROPERTIES

Density

7.60 [kg/dm³]

Melting Temperature

~1030 - 1050 [°C]

Elk. Conductivity

~8 - 10 [MS/m]

Elasticity Modulus

120 [kN/mm²]

CASTING / MANUFACTURING METHODS

EK **Extrusion (Rod/Profile)**

GS **sand casting**

GM **Permanent mold casting**

GZ **Centrifugal casting**

AREAS OF APPLICATION

Ship Propellers

Chemical Plant Sleeves

Heavy Duty Bearings

Wear Plates

Aircraft Landing Gears

MACHINABILITY & CHARACTERISTICS

Due to its high hardness, it shows superior performance against erosion, cavitation, and corrosion. The most ideal material for marine and heavy industries. Carbide tools are recommended during machining.

The technical information specified in this document reflects the standard reference values of international EN and DIN norms. Deviations may be observed depending on final production conditions.

CORUM BRONZE

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