CW304G

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 - 3	max 0.1	max 2.5	2 - 4	8 - 9.5	max 0.05	max 0.2	max 0.1

MECHANICAL PROPERTIES (MIN.)

Elongation (A)	**20**
Hardness (HB)	**125**

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.

CORUM BRONZE

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