



CW352H

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 (%)	C (%)	Mn (%)	Ni (%)	P (%)	S (%)	Co (%)	Pb (%)	Zn (%)	Sn (%)
1 - 2	max 0.05	0.5 - 1	9 - 11	max 0.02	max 0.05	max 0.1	max 0.02	max 0.5	max 0.03

MECHANICAL PROPERTIES (MIN.)

Elongation (A) **30**
 Hardness (HB) **70 - 120**

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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