



CW501L

Special Brass Alloy

Standardization:

Lead-Free / Special Brass Alloy

ALLOY DESCRIPTION

A pure high-ductility, lead-free brass (Special Brass) consisting solely of copper and zinc, possessing peak capabilities in cold forming and deep drawing.

CHEMICAL COMPOSITION (% WEIGHT)

Fe (%)	Ni (%)	Al (%)	Cu (%)	Pb (%)	Sn (%)
max 0.05	max 0.3	max 0.02	89 - 91	max 0.05	max 0.1

MECHANICAL PROPERTIES (MIN.)

Elongation (A) **45**
 Hardness (HB) **50 - 80**

PHYSICAL PROPERTIES

Density **8.40 [kg/dm³]**
 Melting Temperature **~900 - 920 [°C]**
 Elk. Conductivity **~14 - 16 [MS/m]**
 Elasticity Modulus **105 [kN/mm²]**

CASTING / MANUFACTURING METHODS

EK **Extrusion (Rod/Profile)**
 GS **sand casting**
 GM **Permanent mold casting**
 GZ **Centrifugal casting**

AREAS OF APPLICATION

Drinking Water Fittings Deep-Drawn Parts
 Cold Forged Bolts Decorative Architecture
 Automotive Tubes

MACHINABILITY & CHARACTERISTICS

Exceptional cold forging and bending abilities. Highly preferred in drinking water systems because it contains no lead, ensuring ecological compliance. Offers great strength and aesthetic finish.

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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