



CW718R

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 (%)	Si (%)	Mn (%)	Ni (%)	Al (%)	Cu (%)	Pb (%)	Sn (%)
max 0.5	0.2 - 0.8	0.8 - 1.8	max 0.5	0.3 - 1.3	57 - 59	0.2 - 0.8	max 0.5

MECHANICAL PROPERTIES (MIN.)

Elongation (A)

12

Hardness (HB)

100

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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