



CW707R

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 (%) | Mn (%) | P (%) | Al (%) | Cu (%) | Ace (%) | Pb (%) | Sn (%) |
|----------|---------|----------|----------|---------|-------------|----------|----------|
| max 0.05 | max 0.1 | max 0.01 | max 0.02 | 69 - 71 | 0.02 - 0.06 | max 0.07 | max 0.05 |

MECHANICAL PROPERTIES (MIN.)

| | |
|----------------|-----------------|
| Elongation (A) | 45 |
| Hardness (HB) | 75 - 105 |

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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