



# CuSn5Zn5Pb5-C

Pewter-Zinc-Lead Bronze (RG 5)

Brand Name

**KUPTIN R5**

Standardization:

**DIN EN 1982 / CC491K / C83600**

## ALLOY DESCRIPTION

RG 5 is a versatile construction material known for its excellent castability properties and high resistance to seawater. It offers an ideal structure especially for thin-walled castings. It does not become brittle and maintains its form even at low temperatures. It can be used safely in parts requiring sealing and in general engineering applications under moderate mechanical load.

## CHEMICAL COMPOSITION (% WEIGHT)

Cu (%)	Sn (%)	Pb (%)	Zn (%)	Ni (%)	P (%)
83.0-87.0	4.0-6.0	4.0-6.0	4.0-6.0	max. 2.0	max. 0.1

## MECHANICAL PROPERTIES (MIN.)

Tensile Strength ( $R_m$ )	200 - 250 [N/mm <sup>2</sup> ]
Yield Strength ( $R_{p0.2}$ )	90 - 110 [N/mm <sup>2</sup> ]
Elongation ( $A_5$ )	min. 13 [%]
Hardness (HBW)	min. 60 - 65 [HB]

## PHYSICAL PROPERTIES

Density	8.70 [kg/dm <sup>3</sup> ]
Melting Temperature	860 - 1020 [°C]
Elk. Conductivity	7 - 9 [MS/m]
Elasticity Modulus	89 [kN/mm <sup>2</sup> ]

## CASTING METHODS

GS	sand casting
GM	Permanent mold casting
GZ	Centrifugal casting
GC	continuous casting

## AREAS OF APPLICATION

Valve and Pump Bodies

Thin Walled Castings

Sea Water Fixtures

Cooling System Parts

Low Temperature Applications

## MACHINABILITY & CHARACTERISTICS

Thanks to its excellent casting properties, it is one of the most suitable alloys for parts with complex geometries. Care must be taken against the risk of porosity in thick-walled parts, but the sealing performance is unrivaled in thin-walled designs.

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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