



# CuSn7Zn4Pb7-C

Pewter-Zinc-Lead Bronze (RG 7)

Brand Name

**CUPTIN R7**

Standardization:

**DIN EN 1982 / CC493K / C93200**

## ALLOY DESCRIPTION

RG 7 is a medium hardness sliding material with excellent emergency running (notlauf) properties. It works in perfect harmony with uncured or surface hardened steels. Thanks to its low strength values, it can tolerate and balance light edge pressures. It is resistant to sea water and is the most preferred versatile bronze alloy, especially in water cooling systems and general machinery manufacturing.

## CHEMICAL COMPOSITION (% WEIGHT)

Cu (%)	Sn (%)	Pb (%)	Zn (%)	Ni (%)	P (%)
81.0-85.0	6.0-8.0	5.0-8.0	2.0-5.0	max. 2.0	max. 0.1

## MECHANICAL PROPERTIES (MIN.)

Tensile Strength ( $R_m$ )	<b>230 - 260 [N/mm<sup>2</sup>]</b>
Yield Strength ( $R_{p0.2}$ )	<b>120 [N/mm<sup>2</sup>]</b>
Elongation ( $A_5$ )	<b>min. 12 - 15 [%]</b>
Hardness (HBW)	<b>min. 60 - 70 [HB]</b>

## PHYSICAL PROPERTIES

Density	<b>8.80 [kg/dm<sup>3</sup>]</b>
Melting Temperature	<b>860 - 1020 [°C]</b>
Elk. Conductivity	<b>5 - 7 [MS/m]</b>
Elasticity Modulus	<b>105 [kN/mm<sup>2</sup>]</b>

## CASTING METHODS

GS	<b>sand casting</b>
GM	<b>Permanent mold casting</b>
GZ	<b>Centrifugal casting</b>
GC	<b>continuous casting</b>

## AREAS OF APPLICATION

Bearing Bushes

Guide Slats

Pump Bodies

Sea Water Fixtures

General Machinery Manufacturing

## MACHINABILITY & CHARACTERISTICS

It is a material that offers medium level sliding and wear properties and has high notlauf (emergency lubrication) characteristics. Its processability is excellent and it has a wide range of uses with its stabilized chemical structure.

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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