



## CuSn0.15

Tin Bronze Alloy

Standardization:

**Tin Bronze / Phosphor Bronze**

### ALLOY DESCRIPTION

A hard-surfaced Tin Bronze alloy with high tin content, showing superior resistance to deformation under heavy loads.

### CHEMICAL COMPOSITION (% WEIGHT)

Fe (%)	Ni (%)	P (%)	Zn (%)	Sn (%)
max 0.02	max 0.02	max 0.015	max 0.1	0.1 - 0.15

### MECHANICAL PROPERTIES (MIN.)

Hardness (HB) **85 - 110**

### PHYSICAL PROPERTIES

Density **8.80 [kg/dm<sup>3</sup>]**

Melting Temperature **~830 - 990 [°C]**

Elk. Conductivity **~6 - 8 [MS/m]**

Elasticity Modulus **100 [kN/mm<sup>2</sup>]**

### CASTING / MANUFACTURING METHODS

EK	<b>Extrusion (Rod/Profile)</b>
GS	<b>sand casting</b>
GM	<b>Permanent mold casting</b>
GZ	<b>Centrifugal casting</b>

### AREAS OF APPLICATION

Worm Gears

Heavy Load Bushes

Nuts and Screws

Piston Skirts

Wear Shoes

### MACHINABILITY & CHARACTERISTICS

Perfectly withstands high surface pressures. A classic choice for heavy-working worm gears and bearing applications where the load/speed combination is demanding. Corrosion resistance and machinability are well-balanced.

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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