

# Bronze CuSn12

The CuSn12 is a high-performance alloy in the mechanical applications of wear parts. It has excellent characteristics for the casting of very complex moulds, which make it an excellent candidate for the production of raw products. Easy to work and weld is a versatile material.



## Material properties

<b>Density</b>		<b>8,6</b>	g/cm <sup>3</sup>
<b>Tensile strength</b>	ISO 6892	<b>275</b>	MPa
<b>Elongation at break</b>	ISO 6892	<b>9</b>	%
<b>Yield strength</b>	ISO 6892	<b>150-170</b>	MPa
<b>Elastic modulus</b>	ISO 6892	<b>105</b>	GPa
<b>Hardness</b>	ISO 6508	<b>80</b>	HB
<b>Melting temperature</b>		<b>1000</b>	°C
<b>Thermal conductivity (20°C)</b>		<b>71</b>	W/mK
<b>Electrical resistivity</b>		<b>0,15</b>	Ωmm <sup>2</sup> /m

### Maximum dimensions

300x300x50 mm (12x12x2 in)

### Tolerances

ISO 2768-1 fine (f) or medium (m) class

### Applications

Bronze alloy CuSn12 is ideal for mechanical applications requiring superior resistance to friction and wear. For example, bushings mounted on motion axles and shafts. In addition, its excellent corrosion resistance makes it perfect for use in harsh environments such as the marine sector.

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