

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

Density		8,6	g/cm ³
Tensile strength	ISO 6892	275	MPa
Elongation at break	ISO 6892	9	%
Yield strength	ISO 6892	150-170	MPa
Elastic modulus	ISO 6892	110	GPa
Hardness	ISO 6508	80	HB
Melting temperature		1000	°C
Thermal conductivity (20°C)		71	W/mK
Electrical resistivity		0,15	Ωmm ² /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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