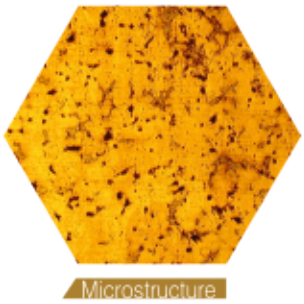

Microstructure

Alloy
CuSn10Pb10

iz-metal

Characteristics & Typical Applications

Bearing material with good sliding and dry-running properties. Good corrosion resistance and good to moderate wear resistance, suitable for high surface pressures. Very good machinability. Crank shafts, bushings, machine parts, heavy load bearings, pumps.

Chemical Composition

Elements	Cu	Sn	Pb	Ni	Zn	Sb	Fe	Mn	S	P	Al	Si
EN 1982	78-82	9-11	8-11	2 max	2 max	0,5 max	0,25 max	0,2 max	0,1 max	0,1 max	0,01 max	0,01 max
Average Nominal	80	10	9	0,5	0,2	0,1	0,1	0,05	0,04	0,005	0,004	0,001

Typical Mechanical Properties

		Continuous Cast	Centrifugal Cast
Tensile Strength Rm	MPa(min)	220	220
%0,2 Yield Stress	MPa(min)	110	110
Elongation	%(min)	8	6
Hardness	HB(min)	70	70

Physical Properties

Density	Specific Heat Capacity	Electrical Conductivity	Thermal Conductivity
8.86 gm/cm^3 at 20°C	377.1 J/kg. °K at 20°C	0.059 Mega Siemens/ cm at 20°C	46.9 W/m.°K at 20°C

Fabrication Processes

Joining Technique	Soldering	Brazing	Oxyacetylene Welding	Gas Shielded Arc Welding	Coated Metal Arc Welding	Machinability Rating
Suitability	Good	Good	Not Recommended	Not Recommended	Not Recommended	80

Related Specifications

DIN EN 1982	BS 1400	ASTM B505	ASTM B271
CC495K	LB2	C93700	C93700

Lead Bronze