



Microstructure

Alloy

CuSn5Zn5Pb5 - RG5



Characteristics & Typical Applications

The main areas of application are water and steam fitting housings up to 255 °C, pump housings and thin-walled, intricate castings and turned parts for mechanical and apparatus engineering and shipbuilding. It is usually replaced as a bearing material with CuSn7Zn4Pb7-C today.

Chemical Composition

Elements	Cu	Zn	Sn	Pb	Ni	Fe	Sb	P	S	Al	Si
EN 1982	83,0 - 87,0	4 - 6	4 - 6	4 - 6	2,0 max	0,3 max	0,25 max	0,1 max	0,1 max	0,01 max	0,01 max
Average Nominal	83	5	5	5	1,62	0,1	0,1	0,1	0,05	0,01	0,01

Typical Mechanical Properties

Tensile Strength Rm	MPa(min)	Continuous Cast	Centrifugal Cast
		250	250
%0,2 Yield Stress	MPa(min)	110	110
Elongation	%(min)	13	13
Hardness	HB(min)	65	65

Physical Properties

Density	Specific Heat Capacity	Electrical Conductivity	Thermal Conductivity
8.83 gm/cm ³ at 20°C	377.1 J/kg. °K at 20°C	0.087 Mega Siemens/cm at 20°C	72.0 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	Excellent	Good	Not Recommended	Not Recommended	Fair	84

Related Specifications

DIN EN 1982	BS 1400	ASTM B271	ASTM B505
CC491K	LG2	C83600	C86300