

Material Data Sheet



BÖGRA - Rg5

CuSn5Zn5Pb5-C

Chemical Composition [wt%]	
Cu	remainder
Sn	5,0
Pb	5,0
Zn	5,0
Ni	<2,0
P	<0,1

Material Designation

Bögra: **Rg5** according to Production-Specification BT-Rg5-110

DIN: Complies with CuSn5Zn5Pb5-C according to DIN EN 1982:2017

Material-No.

CC491K (formerly 2.1096 according to DIN 1705)

Supplied as

- Machined Slide Bearings
- Semi-finished products: rods, tubes, profiles, flat bars

Applications

This alloy is an outstanding constructional material. It is readily cast, can be soft soldered and, under the right conditions, hard soldered and is seawater resistant.

This material is used in water and steam fitting housings up to 225°C, normally stressed housings of pumps and thin-walled, complicated castings.

Physical properties (standard values)			
Condition		GC	GM
Density	ρ [kg/dm ³]	8,7	
Coefficient of thermal expansion	α [*10 ⁻⁶ /K]	18,1	
Electrical conductivity	κ [MS/m]	8,8	
Modulus of elasticity	E [kN/mm ²]	84	

Mechanical properties (standard values)			
Condition		GC	GM
Brinell Hardness	HBW	Min. 65	
0,2% - proofstress	R_{p0,2} [N/mm ²]	Min. 110	
Tensile strength	R_m [N/mm ²]	Min. 250	
Elongation	A [%]	13	
Compressive strength	R_d [N/mm ²]	-	
Max. loading pressure	p_{zul.} [N/mm ²]	-	

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