

Material Data Sheet



BÖGRA - PSN3S

CuSn12-C

Chemical Composition [wt%]	
Cu	remainder
Sn	12,0
Ni	<2,0
Pb	<0,7
P	<0,6

Material Designation

Bögra: **PSN3S** according to Production-Specification BT-PSN3S-220

DIN: Complies with CuSn12-C according to DIN EN 1982:2017

Material-No.

CC483K (formerly 2.1052 according to DIN 1705)

Supplied as

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

Applications

This material has good wear resistance and is resistant to corrosion and seawater. Ring-shaped and tubular constructional parts and elongated profiles, e.g. worm-gears, cylinder inserts, highly loaded placing and sliding bars.

Physical properties (standard values)			
Condition		GC	GM
Density	ρ [kg/dm ³]	8,6	8,6
Coefficient of thermal expansion	α [*10 ⁻⁶ /K]	18,1	18,1
Electrical conductivity	κ [MS/m]	6,2	6,2
Modulus of elasticity	E [kN/mm ²]	97	97

Mechanical properties (standard values)			
Condition		GC	GM
Brinell Hardness	HBW	Min. 90	Min. 80
0,2% - proofstress	R_{p0,2} [N/mm ²]	Min. 150	Min. 150
Tensile strength	R_m [N/mm ²]	Min. 300	Min. 270
Elongation	A [%]	6	5
Compressive strength	R_d [N/mm ²]	Min. 150	Min. 150
Max. loading pressure	p_{zul.} [N/mm ²]	Min. 75	Min. 75

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