

Material Data Sheet



BÖGRA - PS138

CuSn7Pb15-C

Chemical Composition [wt%]	
Cu	remainder
Sn	7,0
Pb	15,0
Ni	1,3
Zn	<2,0
P	<0,1

Material Designation

Bögra: **PS138** according to Production-Specification BT-PS138-530

DIN: Complies with CuSn7Pb15-C according to DIN EN 1982:2017

Material-No.

CC496K (formerly 2.1182 according to DIN 1716)

Supplied as

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

Applications

The composition of this material makes it suitable for use as **universal bearing material in machine tools and special machines**. With its good emergency running properties, it has done good service where lubrication cannot always be guaranteed. The material is largely insensitive to shaft bowing, which, in extreme cases, can lead to high edge pressures. Any impurities that might be carried in the lubricant become safely embedded.

Both hardened and unhardened shafts can be used as opposing material. Used for **centrifugal and underwater pumps, for tobacco and textile machines, food processing and milling machines**.

Physical properties (standard values)			
Condition		GC	GM
Density	ρ [kg/dm ³]	9,1	
Coefficient of thermal expansion	α [$\cdot 10^{-6}/K$]	18,8	
Electrical conductivity	κ [MS/m]	7	
Modulus of elasticity	E [kN/mm ²]	75	

Mechanical properties (standard values)			
Condition		GC	GM
Brinell Hardness	HBW	Min. 65	
0,2% - proofstress	R_{p0,2} [N/mm ²]	Min. 90	
Tensile strength	R_m [N/mm ²]	Min. 200	
Elongation	A [%]	8	
Compressive strength	R_d [N/mm ²]	-	
Max. loading pressure	p_{zul.} [N/mm ²]	Max. 40	

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