Material Data Sheet



BÖGRA - PS1010

CuSn10Pb10-C

Chemical Composition [wt%]			
Cu	remainder		
Sn	10,0		
Pb	9,5		
Zn	<2,0		
Ni	<2,0		
Р	<0,1		

Material Designation

- Bögra: **PS1010** according to Production-Specification BT-PS1010-540
- DIN: Complies with CuSn10Pb10-C according to DIN EN 1982:2017

Material-No.

CC495K (formerly 2.1176 according to DIN 1716)

Supplied as

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

Applications

Bearing material with good sliding properties and good wear resistance. Suitable for use in composite castings.

Sliding bearings with high surface pressures in which edge pressures can occur, e.g. calander rollers, vehicle bearings, bearings for hot rolling mills with peak loads when well lubricated up to $p = 6000 \text{ N/cm}^2$. In composite bearings in combustion engines, loading up to 10,000 N/cm², e.g. piston-pins and gearbox bushings, thrust washers.

Physical properties (standard values)					
Condition		GC	GM		
Density	ρ [kg/dm³]	9			
Coefficient of thermal expansion	α [*10 ⁻⁶ /K]	18,7			
Electrical conductivity	к [MS/m]	6			
Modulus of elasticity	E [kN/mm²]	75			

Mechanical properties (standard values)					
Condition		GC	GM		
Brinell Hardness	HBW	Min. 70			
0,2% - proofstress	Rp _{0,2} [N/mm ²]	Min. 110			
Tensile strength	R _m [N/mm²]	Min. 220			
Elongation	A [%]	8			
Compressive strength	R ₄ [N/mm²]	-			
Max. loading pressure	p_{zul.} [N/mm ²]	Max. 60			

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