Material Data Sheet

BÖGRA - PSN3Ni

CuSn12Ni2-C





Chemical Composition [wt%]			
Cu	remainder		
Sn	12,0		
Ni	2,0		
Р	0,2		

Material Designation

Bögra: PSN3Ni according to Production-

Specification BT-PSN3Ni-222 lead free

DIN: Complies with CuSn12Ni2-C

according to DIN EN 1982:2017

Material-No.

CC484K (formerly 2.1060 according to DIN 1705)

Supplied as

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

Applications

Constructional material with very good wear resistance, resistant to corrosion and seawater and to the effects of cavitation. Ring-shaped and tubular constructional parts, nuts in motion under load, highly loaded, fast running worm and helical gears. Characteristic loading values:

for continuously running worm-wheels, depending on the slip speed, c = 200 to 1250 N/cm^2 for short-term loading, c = 4,000 to $4,500 \text{ N/cm}^2$.

Physical properties (standard values)					
Condition		GC	GM		
Density	ρ [kg/dm³]	8,9			
Coefficient of thermal expansion	α [*10 ⁻⁶ /K]	17,5			
Electrical conductivity	κ [MS/m]	6,1			
Modulus of elasticity	E [kN/mm ²]	100			

Mechanical properties (standard values)					
Condition		GC	GM		
Brinell Hardness	HBW	Min. 95			
0,2% - proofstress	Rp _{0,2} [N/mm ²]	Min. 180			
Tensile strength	$R_m [N/mm^2]$	Min. 300			
Elongation	A [%]	10			
Compressive strength	R_d [N/mm ²]	Min. 160			
Max. loading pressure	p zul. [N/mm²]	Min. 120			

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