Wieland-B09
CuSn8P

Slide Bearings

Wieland

Wieland-CuSn8P:
Bronze highly resistant to load, high temperature, corrosion and wear. Under heavy load, it requires a hardened shaft.
Application: Small-end bearings, joint bearings subject to impact load, standard alloy for wrapped bushings.

Composition (standard values)

Cu	91.3 %
Sn	8.5 %
P	0.2 %

Material designation

Wieland	B09
DIN ISO	4382-2 : 1991

Physical properties (standard values)

Density	[g/cm^3]	8.8
Coefficient of thermal expansion (20-300 °C)	[10^{-6}/K]	18.5
Thermal conductivity	[W/m · K]	58
Modulus of elasticity (20 °C)	[GPa]	115

Max. load

Oscillating bearing up to 150 MPa

Types available

Wrapped or machined bushings

Dimensions of the tube for machined bushings

OD up to 100 mm	
Wall thickness depending on OD	from 0.75 up to 12.5 mm

Dimensions of strip for wrapped bushings

Standard thicknesses	1.0/1.5/2.0/2.5/3.0 mm
Others: please enquire	
Width plain	max. 130 mm
Width with indents	max. 110 mm

Mechanical properties (standard values)

Temper		
Hardness	[HB/HRB]	160/86
Tensile strength R_m	[MPa]	580
0.2 %-proof stress $R_{p0.2}$	[MPa]	480
Elongation A5	[%]	20

1 MPa = 1 N/mm^2

Other mechanical properties on request

Wieland

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