

# 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 <sup>3</sup> ]	8.8
Coefficient of thermal expansion (20-300 °C)	[10 <sup>-6</sup> /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 <sub>m</sub>	[MPa]	580
0.2 %-proof stress R <sub>p0.2</sub>	[MPa]	480
Elongation A5	[%]	20

1 MPa = 1 N/mm<sup>2</sup>

Other mechanical properties on request

# **Wieland**

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