

# Wieland-GA9 CuSn5Pb20-C-GC

## Slide Bearings

# Wieland

### Wieland-GA9:

Very soft alloy with excellent emergency running properties. It is used in case of insufficient lubrication. Even water lubrication is possible. Absorbs moderate loads, therefore used preferably in case of hydrodynamic lubrication. Application: Submerged pumps.

### Composition (standard values)

Pb	20 %
Sn	5 %
Ni	2 %
Cu	balance

### Material designation

Wieland	GA9
EN	1982 : 1998

### Physical properties

(standard values)

Density	[g/cm <sup>3</sup> ]	9.2
Coefficient of thermal expansion (20-300 °C)	[10 <sup>-6</sup> /K]	19.3
Thermal conductivity	[W/m · K]	70
Modulus of elasticity (20 °C)	[GPa]	80

### Max. load

Oscillating bearing up to 30 MPa

### Types available

Machined bushings

### Dimension of the tube for machined bushings

Continuously cast  
OD up to 200 mm                      above please enquire

### Mechanical properties (standard values)

#### Temper

Hardness	[HB]	55
Tensile strength R <sub>m</sub>	[MPa]	200
0.2 %-proof stress R <sub>p0.2</sub>	[MPa]	120
Elongation A	[%]	14

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

# **Wieland**

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