

# Wieland-SA5

## CuZn34Mn3Si1Pb1

## Slide Bearings

# Wieland

### Wieland-SA5

Special brass with hard manganese silicides for high wear resistance. By adding some Pb, the alloy can be easily machined. In use worldwide.

### Composition (standard values)

Cu	61 %
Mn	2.5 %
Si	1.0 %
Pb	0.8 %
Zn	balance

### Material designation

Wieland	SA5
DIN/ISO/EN	not standardized

### Physical properties

(standard values)

Density	[g/cm <sup>3</sup> ]	8.3
Coefficient of thermal expansion (20-300 °C)	[10 <sup>-6</sup> /K]	19.5
Thermal conductivity	[W/m·K]	85
Modulus of elasticity (20 °C)	[GPa]	110

### Max. load

Suitable for operating pressure of min. 450 bar

### Types available

Machined bushings

### Tube dimensions for machined bushings

Please enquire

### Mechanical properties (standard values)

#### Temper

Hardness	[HB/HRB]	150 (HRB 83)
Tensile strength R <sub>m</sub>	[MPa]	500
0.2 %-proof stress R <sub>p0.2</sub>	[MPa]	300
Elongation A5	[%]	10

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

# **Wieland**

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