

Wieland-SA9 CuZn34Mn3Si1Pb

Slide Bearings



Wieland-SA9

differs from SA5 by a lower Pb-content only. This makes it more ductile and thus more suitable for extreme alternate loads between high and low pressure in the freely running slipper shoe. In use world-wide.

Composition (standard values)

Cu	62 %
Mn	2.5 %
Si	1.0 %
Pb	0.2 %
Zn	balance

Material designation

Wieland	SA9
DIN/ISO/EN	not standardized

Physical properties

(standard values)

Density	[g/cm ³]	8.3
Coefficient of thermal expansion (20-300 °C)	[10 ⁻⁶ /K]	19.6
Thermal conductivity	[W/m·K]	74
Modulus of elasticity (20 °C)	[GPa]	108

Max. load

Suitable for operating pressure of min. 450 bar

Types available

Machined slipper shoes

Rod dimensions for machined slipper shoes

Please enquire.

Mechanical properties (standard values)

Temper

Hardness	[HB/HRB]	150 (HRB 83)
Tensile strength R_m	[MPa]	485
0.2 %-proof stress $R_{p0.2}$	[MPa]	315
Elongation A5	[%]	15

1 MPa = 1 N/mm²

Wieland

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