

Wieland-SB7

CuZn37Mn2Ni2Pb1Si1 Slide Bearings

Wieland

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is a nickel-containing special brass with hard, wear resistant manganese silicides. It has been specially developed for the function of the freely running slipper shoe. Its high 0.2 % proof stress makes it particularly ductile and allows it to be easily bent around the joint of the steel piston. Wieland-SB7 can also be used for other antifriction elements.

Composition (standard values)

Cu	57 %
Mn	2.2 %
Ni	2.0 %
Si	1.1 %
Pb	0.7 %
Zn	balance

Material designation

Wieland	SB7
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]	20.5
Thermal conductivity	[W/m · K]	85
Modulus of elasticity (20 °C)	[GPa]	100

Max. load

Suitable for operating pressure of min. 450 bar

Types available

Machined slipper shoes

Dimensions of the tubes and rods for machined bushings and slipper shoes

Please enquire.

Mechanical properties (standard values)

Temper

Hardness	[HB/HRB]	150 (HRB 83)
Tensile strength R _m	[MPa]	530
0.2 %-proof stress R _{p0.2}	[MPa]	350
Elongation A5	[%]	10

1 MPa = 1 N/mm²

Wieland

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