

Wieland-SB8 following CuZn31Si1

Wieland

Slide Bearings

Wieland-SB8:

Special brass, highly load resistant with good high-temperature strength, wear resistant. Under heavy load, it requires a hardened shaft. Bushings to reinforce the bore of aluminium pistons but also to support the pin of steel pistons subject to higher load (Diesel engines). Bushings for connecting rods and additional applications in the engine.

Composition (standard values)

Cu	68 %
Si	1 %
Pb	0.3 %
Zn	balance *)

*) minimal traces of S and Se

Material designation

Wieland	SB8
DIN ISO	4382-2 : 1991

Physical properties

(standard values)

Density	[g/cm ³]	8.4
Coefficient of thermal expansion (20-300 °C)	[10 ⁻⁶ /K]	19.2
Thermal conductivity	[W/m · K]	71
Modulus of elasticity (20 °C)	[GPa]	108

Max. load

Oscillating bearing up to 150 MPa

Types available

Machined bushings

Corrosion resistance

Highly resistant to lube oil.
No corrosion after 100 hours in oil at 180 °C.

Mechanical properties (standard values)

Temper

Hardness	[HB/HRB]	150/83
Tensile strength R _m	[MPa]	540
0.2 %-proof stress R _{p0.2}	[MPa]	430
Elongation A	[%]	10

1 MPa = 1 N/mm²

Other mechanical properties on request.

Wieland

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