

Wieland-S31 CuZn31Si1

Slide Bearings

Wieland

Wieland-S31:

Special brass with high resistance to load, good high-temperature strength, good resistance to corrosion and wear. Under heavy load, it requires a hardened shaft. Applications: Bushings in brakes and differentials/gears for commercial vehicles, agricultural machinery etc., bearing material for wrapped bushings.

Composition (standard values)

Cu	68 %
Si	1 %
Pb	0.2 %
Zn	balance

Material designation

Wieland	S31
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 or wrapped bushings

Tube dimensions for machined bushings

OD up to	130 mm
Wall thickness depending on OD	0.5 to 20 mm

Dimensions of strip for wrapped bushings

Standard thicknesses	1.0/1.5/2.0/2.5/3.0 mm
Others: please enquire	
Width plain	max. 130 mm
Width with indents	max. 110 mm

Mechanical properties (standard values)

Temper

Hardness	[HB/HRB]	140/78
Tensile strength R _m	[MPa]	510
0.2 %-proof stress R _{p0.2}	[MPa]	350
Elongation A	[%]	15

1 MPa = 1 N/mm²

Wieland

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