

Wieland-SC5

CuZn25Al5Ni4Fe3

Slide Bearings

Wieland

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Special high-strength brass (wrought alloy) optimally suited for use in aluminium pistons as well as for joint bearings subjected to high loads in construction machinery, etc.

Composition (nominal)

Cu	66 %
Al	5 %
Mn	5 %
Fe	3 %
Ni	2 %
Zn	balance

Material designation

Wieland SC5
(patented material)

Physical properties (nominal)

Density	[g/cm ³]	7.8
Coefficient of thermal expansion (20-300 °C)	[10 ⁻⁶ /K]	20.5
Thermal conductivity	[W/m · K]	25
Modulus of elasticity (20 °C)	[GPa]	110

Max. load

approx. 200 MPa in the engine

Types available

Machined bushings

Tube dimensions for machined bushings

OD up to 100 mm
above please enquire

Wall thickness as a function of the OD

Mechanical properties (standard values)

Temper	
Hardness	[HB/HRB] 200/96
Tensile Strength R _m	[MPa] 700
0,2 %-proof stress R _{p0,2}	[MPa] 500
Elongation A5	[%] 7

1 MPa = 1 N/mm²

Wieland

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Slide Bearing
Division

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