

Wieland-U17

CuAl10Ni5Fe4

Slide Bearings

Wieland

Wieland-U17:

Bushing for the pin of heavy-duty steel pistons and connecting rods of Diesel engines. Bushing for heavy-duty joint bearings in machinery and automobiles.

Composition (standard values)

Al	10 %
Ni	5 %
Fe	4 %
Cu	balance

Material designation

Wieland	U17
DIN	17665 : 1983

Physical properties

(standard values)

Density	[g/cm ³]	7.6
Coefficient of thermal expansion (20-300 °C)	[10 ⁻⁶ /K]	16.6
Thermal conductivity	[W/m·K]	63
Modulus of elasticity (20 °C)	[GPa]	120

Max. load

Oscillating bearing over 150 MPa

Types available

Machined bushings

Corrosion resistance

Highly resistant to standard lubricants, including lube oil, and to environmental impacts.

Mechanical properties (standard values)

Temper

Hardness	[HB/HRC]	170/89
Tensile strength R _m	[MPa]	700
0.2 %-proof stress R _{p0.2}	[MPa]	460
Elongation A	[%]	10

1 MPa = 1 N/mm²

Wieland

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