

CATALOGUES: OILLESS BUSHING

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FB090 is a kind of bushes wrapped by bronze strip. The bronze is of particular formulation with high specific gravity and on its surface may be incorporated with spherical of diamond shaped indentations or oil grooves as required by customers. It is of high load capacity and long life. In place of traditional bronze bush, it is more cheap and more compact. It is widely applied in hoisting machines and other construction machines, automobiles, tractors, trucks, machine tools and some mineral engines.



Round Dot or Lozenge Oil Alveolation.



Alloy Composition of Bush Materials(%)

Туре	Code	Cu	Sn	Р	Pb	Zn
FB080	CuSn4Pb2.5	89.5	4		2.5	4
FB090	CuSn8Pb0.3		8		0.3	
	CuSn6.5P0.1	93.4	6.5	0.1		

Mechanical Properties

Туре	Tensile Strength(N/mm ²)	Yield Strength(N/mm ²)	Elongation(%)	Hardness(HB)
FB080	420	230	50	120
FB090	450	250	55	105

Physical Properties

Туре	Sp.gr g/cm ³	Linear Expansion 20~300℃ 10 ⁻⁶ /℃	Thermal Conductivity 20℃ w/m*K	Electric Conductivity 20 [°] C m/onm.mm ²	Elastic Modulus KN/mm ²
FB080	8.8	20.2	70	7.8	108
FB090	8.9	18.2	60	6.5	115

Load Capability

Туре	Oscillating for Low Speed Motion	Revolutionary Motion	
FB080	9000~11000N/cm ²	3000~3500N/cm ²	
FB090	10000~12000N/cm ²	3500~4000N/cm ²	

FB092 bronze bushing is based on bronze CuSn8.3P0.3 and evenly distributed drilling oil hole on its body. When in assembly, oil or grease should be stored in the holes before bushing is sealed from both ends. FB092 has the advantages of abundant oil storage, easy-to-assembly, machine compactness etc. It can replace the conventional whole copper sleeves thus to save much cost. It is mostly applied under middle load, low speed such as in convey machine, hoisting machine, windlass, aligning machine etc.





Physical Characteristic

Tensile Strength	Yield Strength	Elongation	Hardness	Speed Limit	Temp Limit	Thermal Conductivity	Linear Expansion
450N/mm ²	250N/mm ²	55%	105HB	2.5m/s	-80°℃~200° ℃	60W/m*k	2*10 ⁻⁶ /℃