Sintered Bronze (DIN 1850)

Characteristics

Maintenance-free bearing for general engineering applications
Optimum performance under relatively light loads and high speeds
Produced by powder metallurgy process and therefore suitable for complex shapes

- Wide range of parts available from stock

Applications

Industrial

- FHP motor bearings
- domestic appliances
- hand tools

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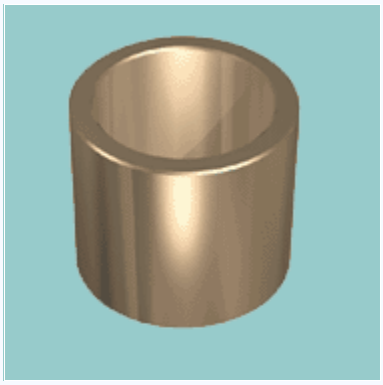


Composition & Structure

Bronze sinter impregnated with oil

Operating Conditions

dry	good
oiled	good
greased	fair
water	not suitable
process fluid	not suitable

Availability

Ex Stock

- Cylindrical bushes
- flanged bushes

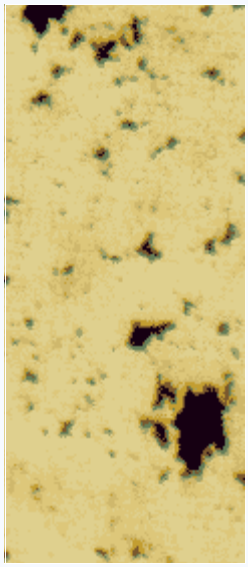
To order

- non-standard parts

Bearing Properties

Bearing Properties	Unit	Value
Dry		
Maximum sliding speed U	m/s	-
Maximum PU factor	N/mm² * m/s = W/mm²	-
Coefficient of friction f	–	-
Oil impregnated		
Maximum sliding speed U	m/s	10
Maximum PU factor	N/mm² * m/s = W/mm²	10
Coefficient of friction f	–	0.08-0.12
General		
Maximum temperature T_{max}	°C	+90
Minimum temperature T_{min}	°C	-5
Maximum load P static	N/mm²	10
Maximum load P dynamic	N/mm²	5
Shaft surface finish Ra	µm	0.2
Shaft hardness	HB	>350
Shaft hardness for longer service life	HB	-

Microsection



Bronze sinter 88.2%, Cu 11%, Sn 0.2%, Rest C

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