deva.metal®

Characteristics

- Maintenance-free bearing materials suitable for hostile environments
- High load capacity
- Tolerant of dirty conditions
- Corrosion-resistant grades available
- Grades available suitable for temperatures up to 650°C
- Optimum performance with low speed and intermittent movements

Applications

Industrial

- Iron foundry and steel works equipment
- furnace fans
- wastewater cleaning plants
- water, steam and gas turbines
- pumps and compressors
- food and drinks industry equipment
- packing machines
- construction equipment
- mechanical handling, etc.

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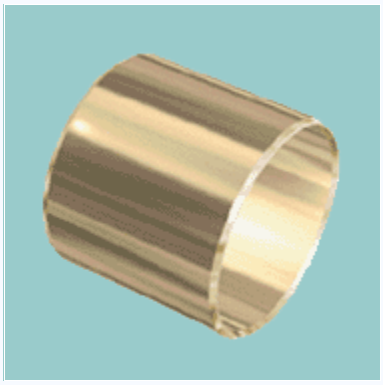


Composition & Structure

Bronze or Lead bronze or Iron or Nickel alloy + graphite or MoS_2 or WS_2

Operating Conditions

dry	good
oiled	good
greased	good
water	good
process fluid	poor

Availability

Ex Stock

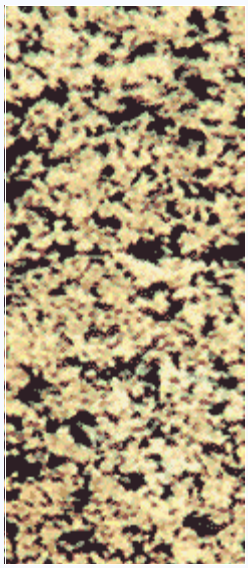
- Cylindrical bushes (bronze alloy)

To order

- Plates
- components in special alloys
- cylindrical bushes (bronze alloy)
- flanged bushes
- thrust washers
- spherical bearings
- special parts

Bearing Properties	Unit	Value
Dry		
Maximum sliding speed U	m/s	0.4
Maximum PU factor	N/mm² * m/s = W/mm²	1.5
Coefficient of friction f	–	0.09-0.13
Oil lubricated		
Maximum sliding speed U	m/s	
Maximum PU factor	N/mm² * m/s = W/mm²	
Coefficient of friction f	–	
General		
Maximum temperature T_{max}	°C	+350
Minimum temperature T_{min}	°C	-100
Maximum load P static	N/mm²	260
Maximum load P dynamic	N/mm²	130
Shaft surface finish Ra	µm	0,2-0,8
Shaft hardness	HB	>180
Shaft hardness for longer service life		

Microsection



Bronze or lead bronze or iron or nickel + graphite alloy