

**LD – low maintenance bearing material**



**1. Structure**

Homogenous bronze (CuSn8 – tin: 8%, lead: <0,05%, copper balance) with grease reservoirs.

**2. Characteristics**

- thin-wall bronze bearing material for lubricated applications,
- larger grease reservoirs than in MBZ extend time between maintenance and allow collecting of debris and contamination resulting in longer lifetime,
- optimum performance under relatively high loads and low speeds,
- can be loaded with edge pressures,

**3. Applications**

- industrial: mechanical handling and lifting equipment, hydraulic cylinders, pneumatic equipment, textile machinery, agricultural equipment, etc.

**4. Availability**

- to order: cylindrical bushes and non standard parts.

**5. Technical data**

Parameter		Unit	Value
Maximum load	static	MPa	120
	dynamic		40
Maximum sliding speed	grease lubricated	m/s	2,5
Maximum p x v factor	grease lubricated	MPa x m/s	2,8
Work temperature	maximum	°C	+150
	minimum		-40
Coefficient of friction	grease lubricated	-	0,06 – 0,15
Surface Ra finish	shaft	µm	0,2 – 0,8
	housing		1,8 – 3,2
Fitting	shaft	-	h8
	housing		H8
Shaft hardness	standard	HB	200
	for longer service life		>350

**6. Working conditions**

dry	poor
oil lubricated	fair
grease lubricated	very good
water lubricated	poor
process fluid lubricated	poor

**7. Assembly tips**

Assemble with stepped shaft in housings with insertion chamfer. Before assembly moisten housing or bush with oil. Fixture: no additional fixture is necessary after press fitting in, however gluing is permissible in special applications or with reciprocating motion.

Caution: Do not use any lubricants containing MoS<sub>2</sub>, graphite or any other solid ingredients (can result with increased wear due to higher friction).