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### deva.metal - self lubricating bearing material

#### 1. Structure

Bronze or tin bronze or iron or nickel composite with even distributed solid lubricant (graphite or PTFE).

#### 2. Features

- self lubricating bearing material suitable for heavy working conditions,
- performs well under heavy loads,
- 800°C maximum working temperature,
- meets optimal working conditions in slow motion intermittent operation,
- high corrosion resistance,
- designed for particular working conditions,
- available also as semi finished products or blank material.

### 3. Applications

 ironworks, steelworks, turbines, food industry, mining equipment, ships, sewage treatment plants, pumps, compressors, packaging machines, etc.

### 4. Availability

- to order: cylindrical bushes, plates and special designs.

#### 5. Technical data

Parameter		Unit	Value		
			bronze composites	iron composites	nickel composites
Maximum load	static	MPa	230	150	100
	dynamic		115	70	50
Maximum sliding speed	dry	m/s	0,4	0,2	0,2
Maximum p x v factor	dry	MPa x m/s	1,5	1,0	0,8
Working temperature	maximum	°C	+350	+600	+450
	minimum		-100	-200	-200
Coefficient of friction	dry	-	0,11	0,25 - 0,43	0,3 - 0,45
Surface Ra finish	shaft	um	0,2 - 0,8		
	housing	μm	3,2		
Fitting	shaft		d7		
	housing	- -	H7		
	bush outer inner		s6/s5		
			C7 (after assembly D8)		
Shaft hardness		HB	180		
		HRC	35		

## 6. Working conditions

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

# 7. Assembly tips

The recommended method for installing bushes is supercooling (bronze alloys only) or press-fit. Additional lubrication improves bearing properties and bearing life.

