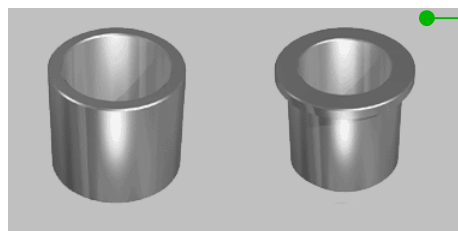


## Sintereisen FP15 – self lubricating bearing material



### 1. Structure

Sintered iron (98% Fe + Cu + graphite + antioxidants + MoS<sub>2</sub>) impregnated with oil.

### 2. Characteristics

- general purpose maintenance free bearing material,
- optimal performance with light loads and medium or high speeds,
- thanks to porous structure of sintered material, lubricant is transferred via capillary tubes,
- can be machined into complex shapes,
- wide range of parts available from stock.

### 3. Applications

- small electric engines, starters and generators,
- electric household equipment,
- electric power tools,
- machinery for agricultural, mining and automotive industry.

### 4. Availability

- ex stock: cylindrical bushes, flanged bushes,
- to order: non standard parts.

### 5. Technical data

Parameter		Unit	Value
Maximum load	static	MPa	40
	dynamic		10
Maximum sliding speed	oil impregnated	m/s	4
p x v coefficient	oil impregnated	MPa x m/s	1,8
Working temperature	maximum	°C	+90
	minimum		-5
Surface Ra finish	shaft	µm	<0,2
	housing		1,8 - 3,2
Fitting	shaft	-	f7
	housing		H7
Shaft hardness		HRC	>55

### 6. Working conditions

dry	good
oil lubricated	good
grease lubricated	fair (slow speed only)
water lubricated	not suitable
process fluid lubricated	not suitable

### 7. Assembly tips

To assemble under steady pressure. For assembly use m5 shaft.  
 Additional machining of bushes permitted.