

## The robust all-rounder according to DIN 2795 – iglidur® M250

Over 450 dimensions available from stock

Excellent vibration dampening

Resistant to edge loads

High impact resistance

Thick walled according to DIN 1850

Dirt can become embedded for shaft protection

Lubrication and maintenance-free



## Excellent vibration dampening

Excellent vibration dampening

Resistant to edge loads

High impact resistance

Thick walled according to DIN 1850

Thrust washers available only in imperial sizes  
▶ from page 1391

The self lubricating plain bearings made from iglidur® M250 are defined by their impact strength, vibration dampening, and wear resistant properties. They excel in applications in which vibration dampening is necessary, for example, in fitness and packaging machines.



### When to use it?

- When the bearings are exposed to high amounts of dirt
- When high vibration dampening is necessary
- For low to medium speeds
- When mechanical reaming of the wall surface is necessary
- Resistant to edge loads
- High impact resistance
- Thick walled according to DIN 1850



### When not to use it?

- For applications in wet areas  
▶ iglidur® H, page 313
- When very high precision is necessary  
▶ iglidur® P, page 113
- For very smooth shafts  
▶ iglidur® J, page 141
- When a cost-effective wear resistant bearing is required  
▶ iglidur® R, page 221

### Typical application areas

- Agricultural machines
- Furniture/Industrial design
- Textile industry
- Doors and gates
- Machine building



### Available from stock

Detailed information about delivery time online.



### Block pricing online

No minimum order value. From batch size 1.



Max. +80 °C

Min. -40 °C



Ø 1–75 mm

More dimensions upon request



Imperial dimensions available

▶ From page 1391



Online product finder

▶ [www.igus.eu/iglidur-finder](http://www.igus.eu/iglidur-finder)

## Material properties

General properties	Unit	iglidur® M250	Testing method
Density	g/cm³	1.14	
Colour		charcoal	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	1.4	DIN 53495
Max. water absorption	% weight	7.6	
Coefficient of sliding friction, dynamic, against steel	μ	0.18–0.40	
pv value, max. (dry)	MPa · m/s	0.12	
Mechanical properties			
Flexural modulus	MPa	2,700	DIN 53457
Flexural strength at +20 °C	MPa	112	DIN 53452
Compressive strength	MPa	52	
Max. recommended surface pressure (+20 °C)	MPa	20	
Shore-D hardness		79	DIN 53505
Physical and thermal properties			
Max. long-term application temperature	°C	+80	
Max. short-term application temperature	°C	+170	
Min. long-term application temperature	°C	-40	
Heat conductivity	W/m · K	0.24	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	K <sup>-1</sup> · 10 <sup>-6</sup>	10	DIN 53752
Electrical properties			
Specific contact resistance	Ωcm	> 10 <sup>13</sup>	DIN IEC 93
Surface resistance	Ω	> 10 <sup>11</sup>	DIN 53482

Table 01: Material properties table

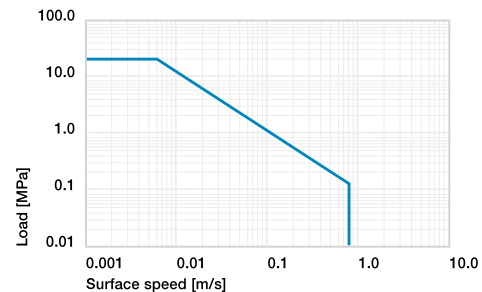


Diagram 01: Permissible pv values for iglidur® M250 bearings with a wall thickness of 1 mm dry running against a steel shaft, at +20 °C, mounted in a steel housing

### Moisture absorption

The humidity absorption of iglidur® M250 bearings amounts to about 1.4 % weight in standard climatic conditions. The saturation limit in water is 7.6 % weight. This must be taken into account for these types of applications.

▶ Diagram, [www.igus.eu/m250-moisture](http://www.igus.eu/m250-moisture)

### Vacuum

iglidur® M250 plain bearings outgas in a vacuum. The relatively high moisture absorption of the bearing allows only limited use in vacuum.

### Radiation resistance

Plain bearings made from iglidur® M250 have limited use under radioactive radiation. They are resistant up to a radiation intensity of 1 · 10<sup>4</sup> Gy.

### UV resistance

iglidur® M250 plain bearings are permanently resistant to UV radiation.

Medium	Resistance
Alcohol	+ to 0
Hydrocarbons	+
Greases, oils without additives	+
Fuels	+
Diluted acids	0 to -
Strong acids	-
Diluted alkalines	+
Strong alkalines	0

+ resistant 0 conditionally resistant – not resistant

All data given at room temperature [+20 °C]

Table 02: Chemical resistance

▶ Chemical table, page 1478

The self lubricating plain bearings made from iglidur® M250 are defined by their impact strength, vibration dampening, and wear resistant properties. They excel in applications in which vibration dampening is necessary, for example, in fitness and packaging machines. Since they are additionally able to absorb dirt, they are also suited for agricultural machines and garden appliances.

## Mechanical properties

With increasing temperatures, the compressive strength of iglidur® M250 plain bearings decreases. Diagram 02 clarifies this relationship. The permissible maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this.

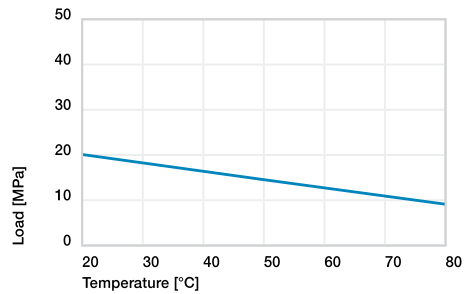


Diagram 02: Permissible maximum surface pressure of as a function of temperature (20 MPa at +20 °C)

iglidur® M250 bearings can withstand radial loads of a maximum 20 MPa. Compared with other iglidur® materials iglidur® M250 bearings are highly elastic. A plastic deformation is minimal up to the permissible surface pressure. A plastic deformation is minimal up to the permissible surface pressure.

► Surface pressure, page 41

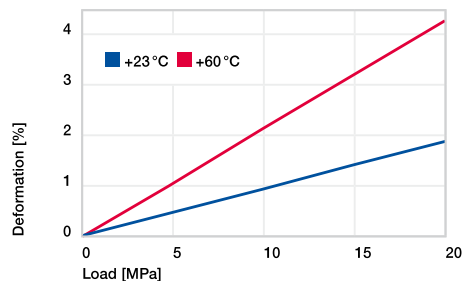


Diagram 03: Deformation under pressure and temperature

## Permissible surface speeds

As standard, iglidur® M250 is manufactured as a thick walled bearing. iglidur® M250 is best suited for low to medium surface speeds. The maximum permissible speed for dry running applications is 0.8 m/s (rotating) or 2.5 m/s (linear). In practice, though, this temperature level is rarely reached due to varying application conditions.

► Surface speed, page 44

m/s	Rotating	Oscillating	Linear
Continuous	0.8	0.6	2.5
Short-term	2	1.4	5

Table 03: Maximum surface speeds

## Temperatures

The maximum permissible short-term temperature is +170 °C. However iglidur® M250 plain bearings may only be exposed to this temperature without any additional load. The long-term permissible application temperature is +80 °C. This is also the point of the wear limit, i. e. the temperature over which the wear increases exponentially. At temperatures over +60 °C an additional securing is required.

► Application temperatures, page 49

► Additional securing, page 49

## Friction and wear

The coefficient of friction  $\mu$  of a plain bearing among other factors is influenced by the surface speed and the load (diagrams 04 and 05).

► Coefficients of friction and surfaces, page 47

► Wear resistance, page 50

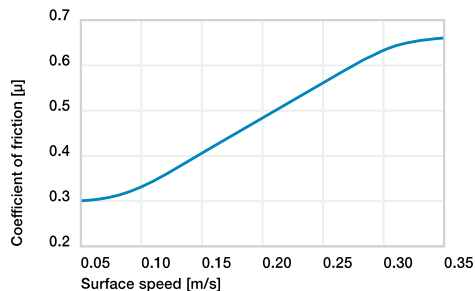


Diagram 04: Coefficient of friction as a function of the surface speed, p = 0.75 MPa

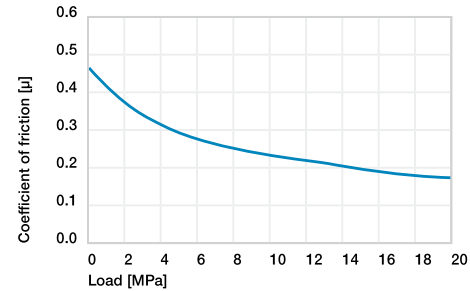


Diagram 05: Coefficient of friction as a function of the pressure, v = 0.01 m/s

## Shaft materials

Friction and wear also depend to a high degree on the reverse partner. If you observe the coefficient of friction, then the ideal shaft surface finish for iglidur® M250 bearings is Ra = 0.6 mm. Diagrams 06 and 07 show results of testing different shaft materials with plain bearings made of iglidur® M250. Up to loads of 2 MPa the shaft material plays a relatively small role for rotational movements. Therefore, a suitable shaft material must be considered for higher loads. These are hardened shafts, such as cold-rolled steel or hard chromed shafts. Diagram 07 makes it clear that iglidur® M250 is considerably better for rotational than for oscillating operation. However, it must be mentioned that in oscillating movements, often the vibrations acting on the bearing are especially high. Here, iglidur® M250 can utilise its special dampening properties. In our test, these vibrations are excluded so that the comparison between rotation and oscillating operation is captured first.

► Shaft materials, page 52

iglidur® M250	Dry	Greases	Oil	Water
C. o. f. $\mu$	0.18–0.40	0.09	0.04	0.04

Table 04: Coefficient of friction against steel (Ra = 1  $\mu$ m, 50 HRC)

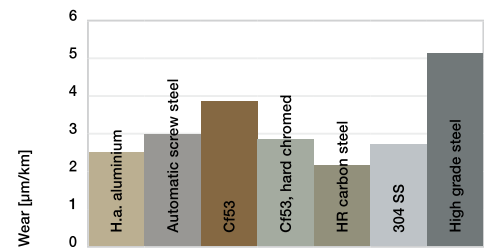


Diagram 06: Wear, rotating with different shaft materials, pressure, p = 1 MPa, v = 0.3 m/s

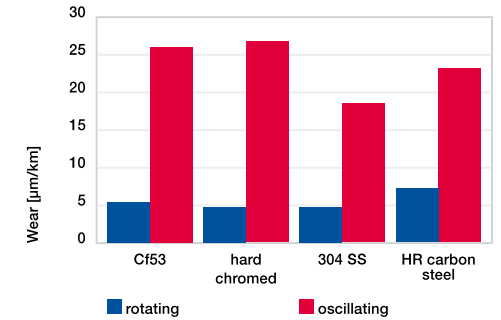


Diagram 07: Wear for rotating and oscillating applications with different shaft materials, p = 2 MPa

## Installation tolerances

iglidur® M250 plain bearings require a relatively large amount of clearance for optimal operation. This ensures that the bearing remains reliable during temperature change and water absorption. The disadvantages of the bearings clearance are minimised by the vibration dampening properties. The bearings are designed for press-fit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, in standard cases the inner diameter automatically adjusts to the D11 tolerances. For particular dimensions the tolerance differs depending on the wall thickness (please see product range table). The shaft should have a recommended minimum h9 tolerance.

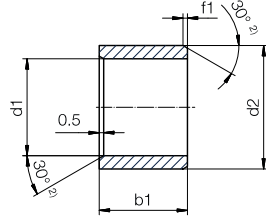
► Testing methods, page 57

Diameter d1 [mm]	Shaft h9 [mm]	iglidur® M250 D11 [mm]	Housing H7 [mm]
up to 3	0–0.025	+0.020 +0.080	0 +0.010
> 3 to 6	0–0.030	+0.030 +0.105	0 +0.012
> 6 to 10	0–0.036	+0.040 +0.130	0 +0.015
> 10 to 18	0–0.043	+0.050 +0.160	0 +0.018
> 18 to 30	0–0.052	+0.065 +0.195	0 +0.021
> 30 to 50	0–0.062	+0.080 +0.240	0 +0.025
> 50 to 80	0–0.074	+0.100 +0.290	0 +0.030

Table 05: Important tolerances for plain bearings according to ISO 3547-1 after pressfit

# iglidur® M250 | Product range

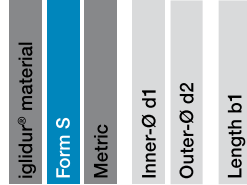
## Sleeve bearing (Form S)



### Order key

Type Dimensions [mm]

**M S M - 0103-02**



### Dimensions according to DIN 1850 and special dimensions

### Imperial dimensions available

► From page 1411

d1	d1- Tolerance <sup>3)</sup>	d2	b1 h13	Part No.
6.0		10.0	2.5	MSM-0610-02
6.0		10.0	4.0	MSM-0610-04
6.0		10.0	6.0	MSM-0610-06
6.0	+0.030	10.0	8.0	MSM-0610-08
6.0	+0.105	10.0	10.0	MSM-0610-10
6.0		11.0	4.0	MSM-0611-04
6.0		12.0	6.0	MSM-0612-06
6.0		12.0	10.0	MSM-0612-10
7.0		10.0	5.0	MSM-0710-05
7.0		10.0	8.0	MSM-0710-08
7.0		10.0	10.0	MSM-0710-10
7.0		11.0	16.0	MSM-0711-16
8.0		10.0	6.0	MSM-0810-06
8.0		10.0	8.0	MSM-0810-08
8.0		10.0	10.0	MSM-0810-10
8.0		10.0	12.0	MSM-0810-12
8.0		11.0	6.0	MSM-0811-06
8.0	+0.040	11.0	8.0	MSM-0811-08
8.0	+0.130	11.0	12.0	MSM-0811-12
8.0		12.0	4.0	MSM-0812-04
8.0		12.0	6.0	MSM-0812-06
8.0		12.0	8.0	MSM-0812-08
8.0		12.0	10.0	MSM-0812-10
8.0		12.0	12.0	MSM-0812-12
8.0		14.0	6.0	MSM-0814-06
8.0		14.0	10.0	MSM-0814-10
9.0		12.0	14.0	MSM-0912-14
10.0		12.0	8.0	MSM-1012-08

<sup>2)</sup> Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

d1 [mm]: Ø 1-6 | Ø 6-12 | Ø 12-30 | Ø > 30  
f [mm]: 0.3 | 0.5 | 0.8 | 1.2

### Dimensions [mm]

d1	d1- Tolerance <sup>3)</sup>	d2	b1 h13	Part No.
1.0		3.0	2.0	MSM-0103-02
1.5		4.0	2.0	MSM-0104-02
2.0		5.0	1.0	MSM-0205-01
2.0		5.0	2.0	MSM-0205-02
2.0	+0.020	5.0	3.0	MSM-0205-03
2.5	+0.080	6.0	3.0	MSM-0206-03
3.0		5.0	3.0	MSM-0305-03
3.0		5.0	4.0	MSM-0305-04
3.0		6.0	3.0	MSM-0306-03
3.0		6.0	4.0	MSM-0306-04
4.0		5.5	4.0	MSM-0405-04
4.0		5.5	6.0	MSM-0405-06
4.0		7.0	3.0	MSM-0407-03
4.0		7.0	4.0	MSM-0407-04
4.0		7.0	6.0	MSM-0407-06
4.0		8.0	4.0	MSM-0408-04
4.0		8.0	6.0	MSM-0408-06
5.0		7.0	5.0	MSM-0507-05
5.0	+0.030	7.0	10.0	MSM-0507-10
5.0	+0.105	8.0	4.0	MSM-0508-04
5.0		8.0	5.0	MSM-0508-05
5.0		8.0	8.0	MSM-0508-08
5.0		9.0	5.0	MSM-0509-05
5.0		9.0	8.0	MSM-0509-08
6.0		9.0	6.0	MSM-0608-06
6.0		8.0	8.0	MSM-0608-08
6.0		8.0	10.0	MSM-0608-10
6.0		9.0	6.0	MSM-0609-06

<sup>3)</sup> After press-fit. Testing methods ► Page 57

# iglidur® M250 | Product range

## Sleeve bearing (Form S)

### Dimensions [mm]

d1	d1- Tolerance <sup>3)</sup>	d2	b1 h13	Part No.
10.0		12.0	10.0	MSM-1012-10
10.0		12.0	12.0	MSM-1012-12
10.0		12.0	15.0	MSM-1012-15
10.0		12.0	20.0	MSM-1012-20
10.0		14.0	6.0	MSM-1014-06
10.0		14.0	8.0	MSM-1014-08
10.0	+0.040	14.0	10.0	MSM-1014-10
10.0	+0.130	14.0	16.0	MSM-1014-16
10.0		16.0	6.0	MSM-1016-06
10.0		16.0	8.0	MSM-1016-08
10.0		16.0	10.0	MSM-1016-10
10.0		16.0	16.0	MSM-1016-16
10.0		16.0	50.0	MSM-1016-50
12.0		14.0	10.0	MSM-1214-10
12.0		14.0	12.0	MSM-1214-12
12.0		14.0	15.0	MSM-1214-15
12.0		14.0	20.0	MSM-1214-20
12.0		16.0	15.0	MSM-1216-15
12.0		16.0	20.0	MSM-1216-20
12.0		18.0	8.0	MSM-1218-08
12.0		18.0	10.0	MSM-1218-10
12.0		18.0	15.0	MSM-1218-15
12.0		18.0	20.0	MSM-1218-20
13.0		15.0	10.0	MSM-1315-10
13.0		15.0	20.0	MSM-1315-20
14.0		16.0	8.5	MSM-1416-085
14.0		16.0	10.0	MSM-1416-10
14.0		16.0	15.0	MSM-1416-15
14.0	+0.050	16.0	20.0	MSM-1416-20
14.0	+0.160	16.0	25.0	MSM-1416-25
14.0		16.0	29.0	MSM-1416-29
14.0		18.0	20.0	MSM-1418-20
14.0		20.0	10.0	MSM-1420-10
14.0		20.0	15.0	MSM-1420-15
14.0		20.0	20.0	MSM-1420-20
15.0		17.0	10.0	MSM-1517-10
15.0		17.0	15.0	MSM-1517-15
15.0		17.0	20.0	MSM-1517-20
15.0		17.0	25.0	MSM-1517-25
15.0		21.0	10.0	MSM-1521-10
15.0		21.0	15.0	MSM-1521-15
15.0		21.0	20.0	MSM-1521-20
15.0		21.0	23.0	MSM-1521-23
16.0		18.0	12.0	MSM-1618-12
16.0		18.0	15.0	MSM-1618-15

<sup>3)</sup> After press-fit. Testing methods ► Page 57

## Dimensions [mm]

d1	d1- Tolerance <sup>3)</sup>	d2	b1 h13	Part No.	d1	d1- Tolerance <sup>3)</sup>	d2	b1 h13	Part No.
24.0		30.0	20.0	MSM-2430-20	30.0	+0.065	38.0	4.5	MSM-3038-045
24.0		30.0	30.0	MSM-2430-30	30.0	+0.195	38.0	4.5	MSM-3038-045
25.0		28.0	12.0	MSM-2528-12	30.0	+0.080	38.0	17.0	MSM-3038-17
25.0		28.0	15.0	MSM-2528-15	30.0	+0.240	38.0	17.0	MSM-3038-17
25.0		28.0	20.0	MSM-2528-20	30.0	+0.065	38.0	20.0	MSM-3038-20
25.0		28.0	25.0	MSM-2528-25	30.0	+0.065	38.0	30.0	MSM-3038-30
25.0		28.0	30.0	MSM-2528-30	30.0	+0.195	38.0	40.0	MSM-3038-40
25.0		30.0	20.0	MSM-2530-20	30.0		40.0	40.0	MSM-3040-40
25.0		30.0	30.0	MSM-2530-30	32.0		40.0	20.0	MSM-3236-20
25.0		30.0	40.0	MSM-2530-40	32.0		40.0	20.0	MSM-3236-30
25.0		32.0	10.0	MSM-2532-10	32.0		40.0	20.0	MSM-3236-40
25.0		32.0	12.0	MSM-2532-12	32.0		40.0	20.0	MSM-3240-20
25.0		32.0	20.0	MSM-2532-20	32.0		40.0	30.0	MSM-3240-30
25.0		32.0	30.0	MSM-2532-30	32.0		40.0	40.0	MSM-3240-40
25.0		32.0	35.0	MSM-2532-35	35.0		39.0	20.0	MSM-3539-20
25.0		32.0	40.0	MSM-2532-40	35.0		39.0	30.0	MSM-3539-30
26.0	+0.065	30.0	20.0	MSM-2630-20	35.0		39.0	40.0	MSM-3539-40
26.0	+0.195	32.0	30.0	MSM-2632-30	35.0		39.0	50.0	MSM-3539-50
27.0		34.0	20.0	MSM-2734-20	35.0		42.0	50.0	MSM-3542-50
27.0		34.0	30.0	MSM-2734-30	40.0	+0.080	44.0	20.0	MSM-4044-20
27.0		34.0	40.0	MSM-2734-40	40.0	+0.240	44.0	30.0	MSM-4044-30
28.0		32.0	20.0	MSM-2832-20	40.0		44.0	40.0	MSM-4044-40
28.0		32.0	25.0	MSM-2832-25	40.0		44.0	50.0	MSM-4044-50
28.0		32.0	30.0	MSM-2832-30	40.0		46.0	20.0	MSM-4046-20
28.0		33.0	20.0	MSM-2833-20	45.0		50.0	20.0	MSM-4550-20
28.0		36.0	20.0	MSM-2836-20	45.0		50.0	30.0	MSM-4550-30
28.0		36.0	30.0	MSM-2836-30	45.0		50.0	40.0	MSM-4550-40
28.0		36.0	40.0	MSM-2836-40	45.0		50.0	50.0	MSM-4550-50
30.0		34.0	20.0	MSM-3034-20	50.0		55.0	20.0	MSM-5055-20
30.0		34.0	25.0	MSM-3034-25	50.0		55.0	30.0	MSM-5055-30
30.0		34.0	30.0	MSM-3034-30	50.0		55.0	40.0	MSM-5055-40
30.0		34.0	40.0	MSM-3034-40	50.0		55.0	50.0	MSM-5055-50
30.0		35.0	20.0	MSM-3035-20	50.0		55.0	60.0	MSM-5055-60
30.0		35.0	40.0	MSM-3035-40	75.0	+0.100			
30.0	+0.032 +0.102	38.0	3.0	MSM-3038-03	75.0	+0.290	80.0	60.0	MSM-7580-60

<sup>3)</sup> After press-fit. Testing methods ► Page 57



### Couldn't find your size?

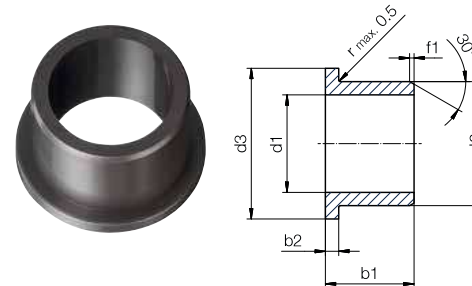
Do you need another length, other dimensions or tolerances? You need a particular design or alternative for your application? Please call us. igus® listens to your needs and provides you a solution very quickly.



### Even more dimensions from stock

More than 300 dimensions are now available. Search online for your required bearing.

► [www.igus.eu/iglidur-specialbearings](http://www.igus.eu/iglidur-specialbearings)



<sup>2)</sup> Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

d1 [mm]: Ø 1-6 | Ø 6-12 | Ø 12-30 | Ø > 30

f [mm]: 0.3 | 0.5 | 0.8 | 1.2

## Dimensions [mm]

d1	d1- Tolerance <sup>3)</sup>	d2	d3	b1 h13	b2 -0.14	Part No.
1.0		3.0	5.0	2.0	1.0	MFM-0103-02
1.5	+0.020	4.0	6.0	2.0	1.0	MFM-0104-02
2.0	+0.080	5.0	8.0	3.0	1.5	MFM-0205-03
2.5		6.0	9.0	3.0	1.5	MFM-0206-03
3.0		6.0	9.0	4.0	1.5	MFM-0306-04
4.0		8.0	12.0	4.0	2.0	MFM-0408-04
4.0		8.0	12.0	6.0	2.0	MFM-0408-06
4.0		8.0	12.0	8.0	2.0	MFM-0408-08
5.0		9.0	13.0	5.0	2.0	MFM-0509-05
5.0		9.0	13.0	6.0	2.0	MFM-0509-06
5.0		9.0	13.0	8.0	2.0	MFM-0509-08
6.0	+0.030	8.0	12.0	4.0	1.0	MFM-0608-04
6.0	+0.105	8.0	12.0	8.0	1.0	MFM-0608-08
6.0		10.0	14.0	4.0	2.0	MFM-0610-04
6.0		10.0	14.0	6.0	2.0	MFM-0610-06
6.0		10.0	14.0	10.0	2.0	MFM-0610-10
6.0		11.0	14.0	4.0	2.0	MFM-0611-04
6.0		12.0	14.0	6.0	3.0	MFM-0612-06
6.0		12.0	14.0	10.0	3.0	MFM-0612-10
7.0		11.0	15.0	6.0	2.0	MFM-0711-06
7.0		11.0	15.0	8.0	2.0	MFM-0711-08
8.0		9.0	13.0	5.5	0.5	MFM-0809-055
8.0	+0.040	10.0	15.0	5.5	1.0	MFM-0810-05
8.0	+0.130	10.0	15.0	7.5	1.0	MFM-0810-07
8.0		10.0	15.0	9.5	1.0	MFM-0810-09
8.0		11.0	13.0	5.0	2.0	MFM-0811-05
8.0		11.0	13.0	8.0	2.0	MFM-0811-08
8.0		12.0	16.0	6.0	2.0	MFM-0812-06

<sup>3)</sup> After press-fit. Testing methods ► Page 57



## Order key

Type Dimensions [mm]

**M F M - 0103-02**

iglidur® material	Form F	Metric	Inner-Ø d1	Outer-Ø d2	Length b1
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Dimensions according to DIN 1850 and special dimensions



Imperial dimensions available

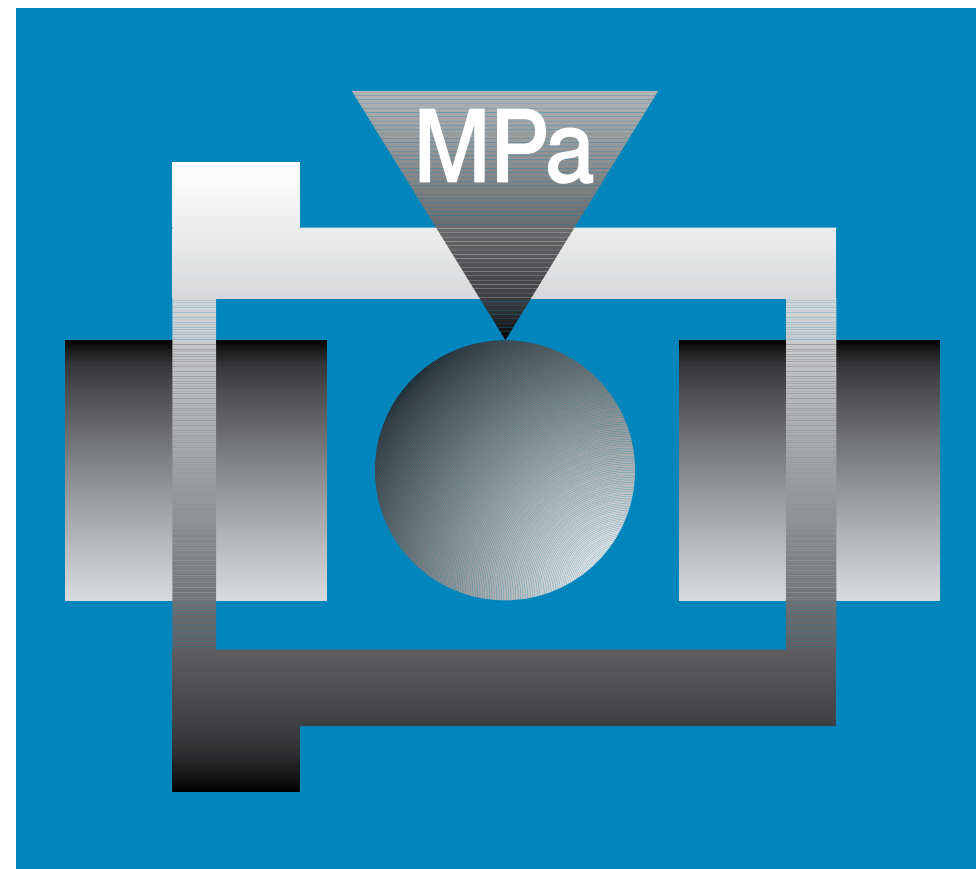
► From page 1435

d1	d1- Tolerance <sup>3)</sup>	d2	d3	b1 h13	b2 -0.14	Part No.
8.0		12.0	16.0	8.0	2.0	MFM-0812-08
8.0		12.0	16.0	12.0	2.0	MFM-0812-12
8.0		14.0	18.0	6.0	3.0	MFM-0814-06
8.0		14.0	18.0	10.0	3.0	MFM-0814-10
8.0		14.0	16.0	6.0	3.0	MFM-081416-06
8.0		14.0	16.0	10.0	3.0	MFM-081416-10
9.0		14.0	19.0	6.0	2.0	MFM-0914-06
9.0		14.0	19.0	10.0	2.0	MFM-0914-10
9.0		14.0	19.0	14.0	2.0	MFM-0914-14
10.0		12.0	18.0	7.0	1.0	MFM-1012-07
10.0		12.0	18.0	9.0	1.0	MFM-1012-09
10.0		12.0	18.0	12.0	1.0	MFM-1012-12
10.0	+0.040	12.0	18.0	17.0	1.0	MFM-1012-17
10.0	+0.130	14.0	19.0	9.0	2.0	MFM-1014-09
10.0		14.0	19.0	10.0	2.0	MFM-1014-10
10.0		14.0	17.5	14.0	1.0	MFM-1014-14
10.0		14.0	17.5	19.0	1.0	MFM-1014-19
10.0		14.0	17.5	24.0	1.0	MFM-1014-24
10.0		14.0	17.5	34.0	1.0	MFM-1014-34
10.0		14.0	19.0	8.0	2.0	MFM-101419-08
10.0		14.0	19.0	12.0	1.5	MFM-101419-12
10.0		14.0	20.0	12.0	2.0	MFM-101420-12
10.0		16.0	22.0	8.0	3.0	MFM-1016-08
10.0		16.0	22.0	10.0	3.0	MFM-1016-10
10.0		16.0	22.0	16.0	3.0	MFM-1016-16
10.0		16.0	20.0	6.0	3.0	MFM-101620-06
10.0		16.0	20.0	10.0	3.0	MFM-101620-10

## Dimensions [mm]

d1	d1- Tolerance <sup>3)</sup>	d2	d3	b1	b2	Part No.	d1	d1- Tolerance <sup>3)</sup>	d2	d3	b1	b2	Part No.
		d13	d13	h13	-0.14				d13	h13	-0.14		
12.0		14.0	20.0	7.0	1.0	MFM-1214-07	19.0		24.0	27.0	12.0	2.0	MFM-192427-12
12.0		14.0	20.0	9.0	1.0	MFM-1214-09	20.0		23.0	30.0	11.5	1.5	MFM-2023-11
12.0		14.0	20.0	12.0	1.0	MFM-1214-12	20.0		23.0	30.0	16.5	1.5	MFM-2023-16
12.0		14.0	20.0	17.0	1.0	MFM-1214-17	20.0		23.0	30.0	21.5	1.5	MFM-2023-21
12.0		16.0	22.0	10.0	2.0	MFM-1216-10	20.0		26.0	32.0	15.0	3.0	MFM-2026-15
12.0		16.0	22.0	20.0	2.0	MFM-1216-20	20.0		26.0	32.0	20.0	3.0	MFM-2026-20
12.0		18.0	24.0	8.0	3.0	MFM-1218-08	20.0		26.0	28.0	12.0	3.0	MFM-202628-12
12.0		18.0	22.0	10.0	3.0	MFM-1218-10	20.0		26.0	32.0	30.0	3.0	MFM-2026-30
12.0		18.0	24.0	12.0	3.0	MFM-1218-12	22.0		28.0	34.0	15.0	3.0	MFM-2228-15
12.0		18.0	22.0	15.0	3.0	MFM-1218-15	22.0		28.0	34.0	20.0	3.0	MFM-2228-20
12.0		18.0	22.0	20.0	3.0	MFM-1218-20	22.0		28.0	34.0	30.0	3.0	MFM-2228-30
13.0		15.0	20.0	14.0	2.0	MFM-1315-14	24.0		30.0	36.0	15.0	3.0	MFM-2430-15
13.0		16.0	24.0	8.0	2.0	MFM-131624-08	24.0		30.0	36.0	20.0	3.0	MFM-2430-20
14.0		16.0	22.0	12.0	1.0	MFM-1416-12	24.0		30.0	36.0	30.0	3.0	MFM-2430-30
14.0		16.0	22.0	17.0	1.0	MFM-1416-17	25.0		28.0	35.0	11.5	1.5	MFM-2528-11
14.0		20.0	25.0	7.0	3.0	MFM-1420-07	25.0		28.0	35.0	16.5	1.5	MFM-2528-16
14.0		20.0	25.0	10.0	3.0	MFM-1420-10	25.0	+0.065	28.0	35.0	21.5	1.5	MFM-2528-21
14.0		20.0	25.0	15.0	3.0	MFM-1420-15	25.0	+0.195	32.0	38.0	12.0	4.0	MFM-2532-12
14.0		20.0	25.0	20.0	3.0	MFM-1420-20	25.0		32.0	38.0	15.0	4.0	MFM-2532-15
15.0		17.0	23.0	9.0	1.0	MFM-1517-09	25.0		32.0	38.0	20.0	4.0	MFM-2532-20
15.0	+0.050	17.0	23.0	12.0	1.0	MFM-1517-12	25.0		32.0	38.0	30.0	4.0	MFM-2532-30
15.0	+0.160	17.0	23.0	17.0	1.0	MFM-1517-17	25.0		32.0	38.0	40.0	4.0	MFM-2532-40
15.0		21.0	27.0	10.0	3.0	MFM-1521-10	27.0		34.0	40.0	20.0	4.0	MFM-2734-20
15.0		21.0	27.0	15.0	3.0	MFM-1521-15	27.0		34.0	40.0	30.0	4.0	MFM-2734-30
15.0		21.0	27.0	20.0	3.0	MFM-1521-20	27.0		34.0	40.0	40.0	4.0	MFM-2734-40
15.0		21.0	27.0	25.0	3.0	MFM-1521-25	28.0		36.0	42.0	20.0	4.0	MFM-2836-20
16.0		18.0	28.0	8.0	2.0	MFM-1618-08/02	28.0		36.0	42.0	30.0	4.0	MFM-2836-30
16.0		18.0	24.0	12.0	1.0	MFM-1618-12	28.0		36.0	42.0	40.0	4.0	MFM-2836-40
16.0		18.0	24.0	17.0	1.0	MFM-1618-17	30.0		34.0	42.0	16.0	2.0	MFM-3034-16
16.0		22.0	28.0	12.0	3.0	MFM-1622-12	30.0		34.0	42.0	26.0	2.0	MFM-3034-26
16.0		22.0	28.0	15.0	3.0	MFM-1622-15	30.0		35.0	44.0	20.0	4.0	MFM-3035-20
16.0		22.0	28.0	20.0	3.0	MFM-1622-20	30.0		38.0	44.0	20.0	4.0	MFM-3038-20
16.0		22.0	28.0	25.0	3.0	MFM-1622-25	30.0		38.0	44.0	30.0	4.0	MFM-3038-30
18.0		20.0	26.0	12.0	1.0	MFM-1820-12	30.0		38.0	44.0	40.0	4.0	MFM-3038-40
18.0		20.0	26.0	17.0	1.0	MFM-1820-17	32.0		40.0	46.0	20.0	4.0	MFM-3240-20
18.0		20.0	26.0	22.0	1.0	MFM-1820-22	32.0		40.0	46.0	30.0	4.0	MFM-3240-30
18.0		24.0	30.0	8.0	3.0	MFM-1824-08	32.0		40.0	46.0	40.0	4.0	MFM-3240-40
18.0		24.0	30.0	12.0	3.0	MFM-1824-12	35.0	+0.080	39.0	47.0	16.0	2.0	MFM-3539-16
18.0		24.0	30.0	18.0	3.0	MFM-1824-18	35.0	+0.240	39.0	47.0	26.0	2.0	MFM-3539-26
18.0		24.0	30.0	20.0	3.0	MFM-1824-20	40.0		44.0	52.0	30.0	2.0	MFM-4044-30
18.0		24.0	30.0	30.0	3.0	MFM-1824-30	40.0		44.0	52.0	40.0	2.0	MFM-4044-40
18.0		24.0	26.0	7.8	3.0	MFM-182426-078	45.0		50.0	58.0	50.0	2.0	MFM-4550-50

<sup>3)</sup> After press-fit. Testing methods ► Page 57



## Specialist for pivoting, rolling applications and more – iglidur® P210

Low moisture absorption

Extremely wear resistant especially up to 20 MPa in pivoting applications

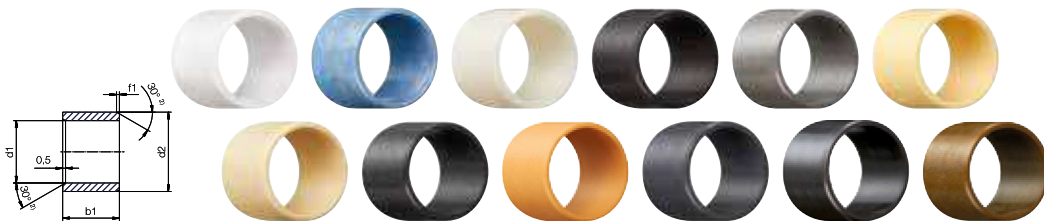
Versatile: performance on many different shafts

Good with edge loads

Lubrication and maintenance-free

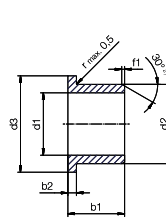
Standard range from stock





Dimensions sleeve Abmessungen zylindrisch [mm]

Part No. Art.-Nr.	d1	d1 tolerance d1-Toleranz	d2	b1 h13
A180SM-0810-15	8.0	+0.025 +0.083	10.0	15.0
A350SM-1416-12	14.0	+0.016 +0.068	16.0	12.0
C500SM-3034-30	30.0	+0.020 +0.104	34.0	30.0
F2SM-1214-15	12.0	+0.032 +0.102	14.0	15.0
F2SM-1618-20	16.0	+0.032 +0.102	18.0	20.0
GSM-0406-06	4.0	+0.020 +0.068	6.0	6.0
GSM-0810-36	8.0	+0.025 +0.083	10.0	36.0
GSM-120125-78	120.0	+0.072 +0.212	125.0	78.0
GSM-1214-45	12.0	+0.032 +0.102	14.0	45.0
GSM-1820-30	18.0	+0.032 +0.102	20.0	30.0
GSM-1822-15	18.0	+0.032 +0.102	22.0	15.0
GSM-2021-095	20.0	+0.020 +0.072	21.0	9.5
JSM-0814-08	8.0	+0.040 +0.130	14.0	8.0
JSM-1216-06	12.0	+0.050 +0.0160	16.0	6.0
JSM-1218-10	12.0	+0.050 +0.0160	18.0	10.0
JSM-1315-06	13.0	+0.050 +0.0160	15.0	6.0
JSM-1620-20	16.0	+0.050 +0.0160	20.0	20.0
JSM-6065-100	60.0	+0.060 +0.180	65.0	100.0
MSM-1620-10	16.0	+0.050 +0.0160	20.0	10.0
P210SM-1214-04	12.0	+0.032 +0.102	14.0	4.0
PSM-0608-05	6.0	+0.020 +0.068	8.0	5.0
PSM-0812-10	8.0	+0.040 +0.130	12.0	10.0
PSM-3236-15	32.0	+0.050 +0.150	36.0	15.0
Q2SM-1012-04	10.0	+0.025 +0.083	12.0	4.0
Q2SM-4246-52	42.0	+0.050 +0.150	46.0	52.0
X6SM-1416-22	14.0	+0.016 +0.086	16.0	22.0
X6SM-1618-12	16.0	+0.016 +0.086	18.0	12.0
X6SM-2023-15	20.0	+0.020 +0.104	23.0	15.0
ZSM-2225-35	22.0	+0.020 +0.104	25.0	35.0
ZSM-6065-25	60.0	+0.030 +0.150	65.0	25.0
ZSM-9095-100	90.0	+0.036 +0.176	95.0	100.0



Dimensions with flange Abmessungen mit Bund [mm]

Part No. Art.-Nr.	d1	d1 tolerance d1-Toleranz	d2	d3	b1 h13	b2
GFM-060710-06	6.0	+0.010 +0.040	7.0	10.0	6.0	0.5
GFM-0812-16	8.0	+0.040 +0.130	12.0	16.0	16.0	2.0
GFM-101115-03	10.0	+0.013 +0.046	11.0	15.0	3.0	1.0
GFM-1012-11	10.0	+0.025 +0.083	12.0	18.0	11.0	1.0
GFM-1012-25	10.0	+0.025 +0.083	12.0	18.0	25.0	1.0
GFM-1719-07	17.0	+0.032 +0.102	19.0	25.0	7.0	1.0
GFM-2527-12	25.0	+0.040 +0.124	27.0	32.0	12.0	1.0
GFM-2527-15	25.0	+0.040 +0.124	27.0	32.0	15.0	1.0
GFM-3034-12	30.0	+0.040 +0.124	34.0	42.0	12.0	2.0
GFM-303440-07	30.0	+0.040 +0.124	34.0	40.0	7.0	2.0
H1FM-0405-06	4.0	+0.010 +0.058	5.5	9.5	6.0	0.8
J350FM-6065-50	60.0	+0.030 +0.150	65.0	73.0	50.0	2.0
J3FM-081418-15	8.0	+0.025 +0.083	14.0	18.0	15.0	2.0
JFM-040810-15	4.0	+0.020 +0.068	8.0	10.0	15.0	2.0
JFM-0810-03	8.0	+0.025 +0.083	10.0	15.0	3.0	1.0
JFM-121419-06	12.0	+0.032 +0.102	14.0	19.0	6.0	1.0
JFM-121622-20	12.0	+0.050 +0.0160	16.0	22.0	20.0	2.0
JFM-2023-07	20.0	+0.040 +0.124	23.0	30.0	7.0	1.5
PFM-1214-08	12.0	+0.032 +0.102	14.0	8.0	20.0	1.0
PFM-1618-08	16.0	+0.032 +0.102	18.0	8.0	24.0	1.0
P210FM-0405-06	4.0	+0.020 +0.068	5.5	9.5	6.0	0.8
Q290FM-8085-100	80.0	+0.060 +0.180	85.0	93.0	100.0	2.5
Q2FM-101219-13	10.0	+0.025 +0.083	12.0	19.0	13.0	1.0
Q2FM-1013-05	10.0	+0.025 +0.083	13.0	20.0	5.0	1.0
Q2FM-2023-07	20.0	+0.040 +0.124	23.0	30.0	7.0	1.5
QFM-101215-04	10.0	+0.025 +0.083	12.0	15.0	4.0	1.0
QFM-121418-06	12.0	+0.032 +0.102	14.0	18.0	6.0	1.0
WFM-2023-08	20.0	+0.040 +0.124	23.0	30.0	8.0	1.5
XFM-1214-50	12.0	+0.016 +0.086	14.0	50.0	20.0	1.0
X6FM-0608-04	6.0	+0.010 +0.058	8.0	12.0	4.0	1.0
ZFM-1012-25	10.0	+0.013 +0.071	12.0	18.0	25.0	1.0
ZFM-2023-075	20.0	+0.020 +0.104	23.0	30.0	7.5	1.5

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