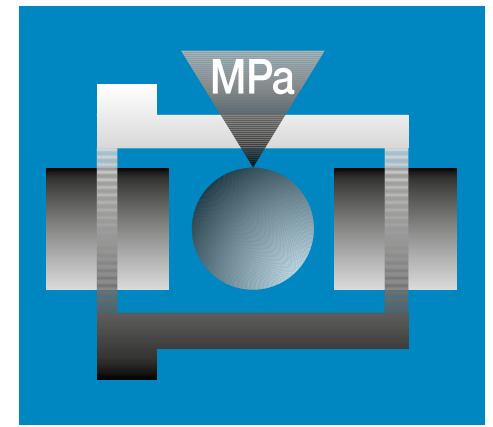


## Bearing technology | Plain bearing | iglidur® M250

d1	d1	d2	d3	b1	b2	Part No.	d1	d1	d2	d3	b1	b2	Part No.
[mm]	Tolerance <sup>9)</sup>	[mm]	d13 <sup>9)</sup>	h13	h13		[mm]	Tolerance <sup>9)</sup>	[mm]	d13 <sup>9)</sup>	h13	h13	
12.0		14.0	20.0	7.0	1.00	MFM-1214-07	19.0		24.0	27.0	12.0	2.00	MFM-192427-12
12.0		14.0	20.0	9.0	1.00	MFM-1214-09	20.0		23.0	30.0	11.5	1.50	MFM-2023-11
12.0		14.0	20.0	12.0	1.00	MFM-1214-12	20.0		23.0	30.0	16.5	1.50	MFM-2023-16
12.0		14.0	20.0	17.0	1.00	MFM-1214-17	20.0		23.0	30.0	21.5	1.50	MFM-2023-21
12.0		16.0	22.0	10.0	2.00	MFM-1216-10	20.0		26.0	28.0	12.0	3.00	MFM-202628-12
12.0		16.0	22.0	20.0	2.00	MFM-1216-20	20.0		26.0	32.0	15.0	3.00	MFM-2026-15
12.0		18.0	24.0	8.0	3.00	MFM-1218-08	20.0		26.0	32.0	20.0	3.00	MFM-2026-20
12.0		18.0	22.0	10.0	3.00	MFM-1218-10	20.0		26.0	32.0	30.0	3.00	MFM-2026-30
12.0		18.0	24.0	12.0	3.00	MFM-1218-12	22.0		28.0	34.0	15.0	3.00	MFM-2228-15
12.0		18.0	22.0	15.0	3.00	MFM-1218-15	22.0		28.0	34.0	20.0	3.00	MFM-2228-20
12.0		18.0	22.0	20.0	3.00	MFM-1218-20	22.0		28.0	34.0	30.0	3.00	MFM-2228-30
13.0		15.0	20.0	14.0	2.00	MFM-1315-14	24.0		30.0	36.0	15.0	3.00	MFM-2430-15
13.0		16.0	24.0	8.0	2.00	MFM-131624-08	24.0		30.0	36.0	20.0	3.00	MFM-2430-20
14.0		16.0	22.0	12.0	1.00	MFM-1416-12	24.0		30.0	36.0	30.0	3.00	MFM-2430-30
14.0		16.0	22.0	17.0	1.00	MFM-1416-17	25.0		28.0	35.0	11.5	1.50	MFM-2528-11
14.0		20.0	25.0	7.0	3.00	MFM-1420-07	25.0		28.0	35.0	16.5	1.50	MFM-2528-16
14.0		20.0	25.0	10.0	3.00	MFM-1420-10	25.0	+0.065	28.0	35.0	21.5	1.50	MFM-2528-21
14.0		20.0	25.0	15.0	3.00	MFM-1420-15	25.0	+0.195	32.0	38.0	12.0	4.00	MFM-2532-12
14.0		20.0	25.0	20.0	3.00	MFM-1420-20	25.0		32.0	38.0	15.0	4.00	MFM-2532-15
15.0		17.0	23.0	9.0	1.00	MFM-1517-09	25.0		32.0	38.0	20.0	4.00	MFM-2532-20
15.0	+0.050	17.0	23.0	12.0	1.00	MFM-1517-12	25.0		32.0	38.0	30.0	4.00	MFM-2532-30
15.0	+0.160	17.0	23.0	17.0	1.00	MFM-1517-17	25.0		32.0	38.0	40.0	4.00	MFM-2532-40
15.0		21.0	27.0	10.0	3.00	MFM-1521-10	27.0		34.0	40.0	20.0	4.00	MFM-2734-20
15.0		21.0	27.0	15.0	3.00	MFM-1521-15	27.0		34.0	40.0	30.0	4.00	MFM-2734-30
15.0		21.0	27.0	20.0	3.00	MFM-1521-20	27.0		34.0	40.0	40.0	4.00	MFM-2734-40
15.0		21.0	27.0	25.0	3.00	MFM-1521-25	28.0		36.0	42.0	20.0	4.00	MFM-2836-20
16.0		18.0	28.0	8.0	2.00	MFM-1618-08/02	28.0		36.0	42.0	30.0	4.00	MFM-2836-30
16.0		18.0	24.0	12.0	1.00	MFM-1618-12	28.0		36.0	42.0	40.0	4.00	MFM-2836-40
16.0		18.0	24.0	17.0	1.00	MFM-1618-17	30.0		34.0	42.0	16.0	2.00	MFM-3034-16
16.0		22.0	28.0	12.0	3.00	MFM-1622-12	30.0		34.0	42.0	26.0	2.00	MFM-3034-26
16.0		22.0	28.0	15.0	3.00	MFM-1622-15	30.0		35.0	44.0	20.0	4.00	MFM-3035-20
16.0		22.0	28.0	20.0	3.00	MFM-1622-20	30.0		38.0	44.0	20.0	4.00	MFM-3038-20
16.0		22.0	28.0	25.0	3.00	MFM-1622-25	30.0		38.0	44.0	30.0	4.00	MFM-3038-30
18.0		20.0	26.0	12.0	1.00	MFM-1820-12	30.0		38.0	44.0	40.0	4.00	MFM-3038-40
18.0		20.0	26.0	17.0	1.00	MFM-1820-17	32.0		40.0	46.0	20.0	4.00	MFM-3240-20
18.0		20.0	26.0	22.0	1.00	MFM-1820-22	32.0		40.0	46.0	30.0	4.00	MFM-3240-30
18.0		24.0	26.0	7.8	3.00	MFM-182426-078	32.0		40.0	46.0	40.0	4.00	MFM-3240-40
18.0		24.0	30.0	8.0	3.00	MFM-1824-08	35.0	+0.080	39.0	47.0	16.0	2.00	MFM-3539-16
18.0		24.0	30.0	12.0	3.00	MFM-1824-12	35.0	+0.240	39.0	47.0	26.0	2.00	MFM-3539-26
18.0		24.0	30.0	18.0	3.00	MFM-1824-18	40.0		44.0	52.0	30.0	2.00	MFM-4044-30
18.0		24.0	30.0	20.0	3.00	MFM-1824-20	40.0		44.0	52.0	40.0	2.00	MFM-4044-40
18.0		24.0	30.0	30.0	3.00	MFM-1824-30	45.0		50.0	58.0	50.0	2.00	MFM-4550-50

<sup>9)</sup> After press-fit. Testing methods, page 57



**Specialist for pivoting, rolling applications and more**  
Low coefficient of friction and wear on almost every shaft  
**iglidur® P210**



**When to use it?**

- When a universal plain bearing for use in a moist environment is required
- When a wear-resistant plain bearing for pivoting applications at medium loads is required
- When edge loads and shocks occur
- When the surface pressure of iglidur® J is insufficient



**When not to use?**

- When a universal plain bearing with the largest possible range of dimensions is required  
*iglidur® G*
- When a plain bearing for highly loaded pivoting applications is required  
*iglidur® Q, iglidur® Q2*
- When temperatures are higher than +100°C  
*iglidur® G, iglidur® J350*

# Bearing technology | Plain bearing | iglidur® P210



Ø  
4.0 – 50.0mm



Also available as:



Bar stock, round bar  
Page 672

## Specialist for pivoting, rolling applications and more

### Low coefficient of friction and wear on almost every shaft



Bar stock, plate  
Page 683

This versatile material has already proven its worth in many customer-specific solutions and as a bar stock material. Clip-on or pre-loaded designs as well as vehicle interior applications are possible. Now available in a standard size range from stock.

- Low moisture absorption
- Versatile: performance on many different shafts
- Suitable for high edge pressures
- Lubrication-free
- Maintenance-free



tribo-tape liner  
Page 691

#### Typical application areas

- Agricultural machines
- Furniture/Industrial design
- Textile industry
- Doors and gates
- Mechanical engineering



Piston rings  
Page 584



Two hole flange bearings  
Page 603



Moulded special parts  
Page 624



igubal® spherical balls  
Page 841

Descriptive technical specifications				
Wear resistance at +23°C	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+
Wear resistance at +90°C	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+
Wear resistance at +150°C	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+
Low coefficient of friction	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+
Low moisture absorption	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+
Wear resistance under water	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+
High media resistance	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+
Resistant to edge pressures	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+
Suitable for shock and impact loads	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+
Resistant to dirt	-	<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>		+

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

Online service life calculation  
[www.igus.eu/iglidur-expert](http://www.igus.eu/iglidur-expert)

## Technical data

General properties			Testing method
Density	g/cm <sup>3</sup>	1.40	
Colour		yellow	
Max. moisture absorption at +23°C and 50% r.h.	% weight	0.3	DIN 53495
Max. moisture absorption	% weight	0.5	
Coefficient of friction, dynamic, against steel	μ	0.07 – 0.19	
pv value, max. (dry)	MPa · m/s	0.40	
Mechanical properties			
Flexural modulus	MPa	2,500	DIN 53457
Flexural strength at +20°C	MPa	70	DIN 53452
Compressive strength	MPa	50	
Max. recommended surface pressure (+20°C)	MPa	50	
Shore D hardness		75	DIN 53505
Physical and thermal properties			
Max. application temperature long-term	°C	+100	
Max. application temperature short-term	°C	+160	
Min. application temperature	°C	-40	
Thermal conductivity	W/m · K	0.25	ASTM C 177
Coefficient of thermal expansion (at +23°C)	K <sup>-1</sup> · 10 <sup>-5</sup>	8	DIN 53752
Electrical properties			
Specific contact resistance	Ωcm	> 10 <sup>12</sup>	DIN IEC 93
Surface resistance	Ω	> 10 <sup>11</sup>	DIN 53482

Table 01: Material properties

iglidur® P210 plain bearings provide the user with versatile all-round bearings, which have proven to have above average service life, primarily in pivoting applications at medium loads of up to 20MPa.

#### Moisture absorption

Under standard climatic conditions, the moisture absorption of iglidur® P210 plain bearings is approximately 0.3% weight. The saturation limit in water is 0.5% weight. This low moisture absorption is well below the values of iglidur® G.

#### Vacuum

In vacuum, any present moisture is released as vapour. The use in vacuum is only possible to a limited extent.

#### Radiation resistance

Plain bearings made from iglidur® P210 have limited use under radioactive radiation. They are resistant to radiation up to an intensity of 3 · 10<sup>2</sup>Gy.

#### Resistance to weathering

iglidur® P210 plain bearings are continuously resistant to weathering. The material properties are only slightly affected. Possible discolorations are only superficial.

#### Mechanical properties

With increasing temperatures, the compressive strength of iglidur® P210 plain bearings decreases. Diagram 02 shows this inverse relationship. The maximum recommended surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this.

Diagram 03 shows the elastic deformation of iglidur® P210 at radial loads. At the maximum recommended surface pressure of 50MPa at room temperature the deformation is less than 3%.

**Surface pressure, page 41**



-40°C up to +100°C



50MPa



## Permissible surface speeds

Plain bearings made from iglidur® P210 are maintenance-free, they are developed for low to medium surface speeds. The maximum values given in table 03 can only be achieved at a very low surface pressure. The maximum speed given is the speed at which an increase up to the continuous use temperature occurs due to friction.

**Surface speed, page 44**

## Temperature

Due to its maximum long-term application temperature of +100°C, iglidur® P210 is suitable for a wide range of applications. If even higher temperatures are required, iglidur® G is also available with a max. long-term application temperature of +130°C. The temperatures prevailing in the bearing system also have an influence on the wear. The wear rises with increasing temperatures. For temperatures over +50°C an additional securing is required.

**Application temperatures, page 49**

**Additional securing, page 49**

## Friction and wear

Similar to wear resistance, the coefficient of friction  $\mu$  also changes with the surface speed and load (diagrams 04 and 05).

**Coefficient of friction and surfaces, page 47**

**Wear resistance, page 50**

## Shaft materials

Diagram 06 shows results of testing different shaft materials with plain bearings made from iglidur® P210. For rotational movements at radial loads below 1MPa, iglidur® P210 has generally very low wear. Wear is only significantly higher in combination with HR carbon steel shafts. Generally, rotational wear will be higher than for a pivoting application of equal load. This is only reversed at loads above 25MPa (diagram 07).

**Shaft materials, page 52**

## Installation tolerances

iglidur® P210 plain bearings are standard bearings for shafts with h tolerance (recommended minimum h9). 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 E10 tolerances. For particular dimensions the tolerance differs depending on the wall thickness (please see product range table).

**Testing methods, page 57**

Chemicals	Resistance
Alcohols	+
Diluted acids	0
Diluted alkalines	-
Fuels	+
Greases, oils without additives	+
Hydrocarbons	-
Strong acids	-
Strong alkalines	-

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

**Table 02: Chemical resistance**

**Chemical table, page 1636**

	Rotating	Oscillating	linear
long-term m/s	1.0	0.7	3.0
short-term m/s	2.0	1.4	4.0

**Table 03: Maximum surface speeds**

	Dry	Greases	Oil	Water
Coefficient of friction $\mu$	0.07 - 0.19	0.09	0.04	0.04

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

$\varnothing$ d1 [mm]	Housing		Plain bearing		Shaft	
	H7 [mm]	E10 [mm]	E10 [mm]	E10 [mm]	h9 [mm]	h9 [mm]
0-3	+0.000	+0.010	+0.014	+0.054	-0.025	+0.000
> 3-6	+0.000	+0.012	+0.020	+0.068	-0.030	+0.000
> 6-10	+0.000	+0.015	+0.025	+0.083	-0.036	+0.000
> 10-18	+0.000	+0.018	+0.032	+0.102	-0.043	+0.000
> 18-30	+0.000	+0.021	+0.040	+0.124	-0.052	+0.000
> 30-50	+0.000	+0.025	+0.050	+0.150	-0.062	+0.000
> 50-80	+0.000	+0.030	+0.060	+0.180	-0.074	+0.000
> 80-120	+0.000	+0.035	+0.072	+0.212	-0.087	+0.000
> 120-180	+0.000	+0.040	+0.085	+0.245	-0.100	+0.000

**Table 05: Important tolerances for plain bearings according to ISO 3547-1 after press-fit**

## Technical data

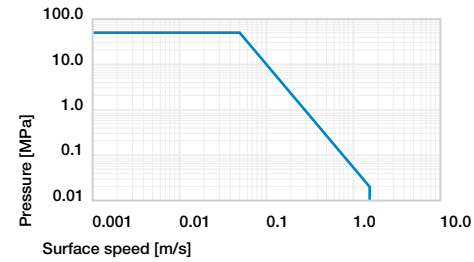


Diagram 01: Permissible pv values for iglidur® P210 plain bearings with a wall thickness of 1mm, dry operation against a steel shaft, at +20°C, mounted in a steel housing

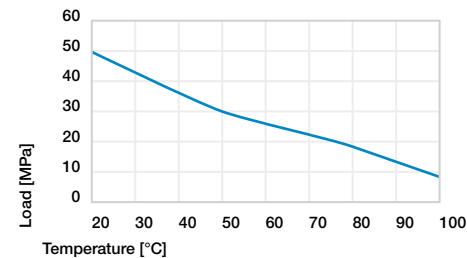


Diagram 02: Maximum recommended surface pressure as a function of temperature (50MPa at +20°C)

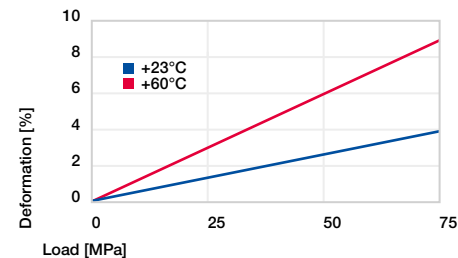


Diagram 03: Deformation under pressure and temperature

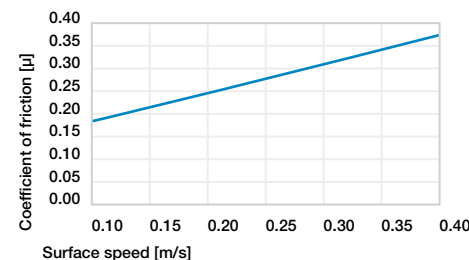


Diagram 04: Coefficient of friction as a function of the surface speed, p = 1 MPa

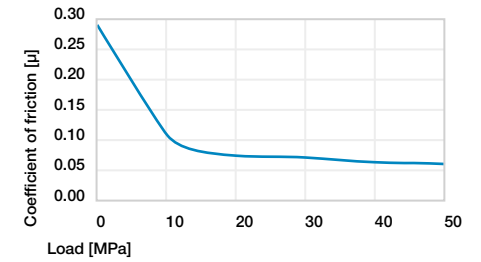


Diagram 05: Coefficient of friction as a function of the load, v = 0.01m/s

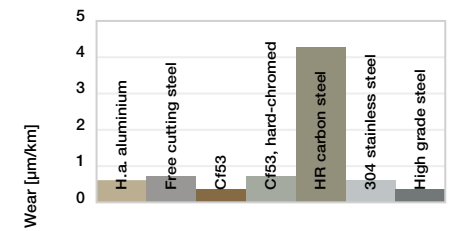


Diagram 06: Wear, rotating with different shaft materials, pressure, p = 1MPa, v = 0.3m/s

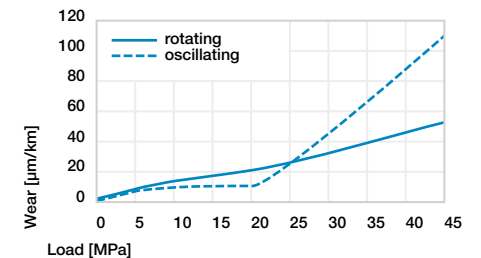
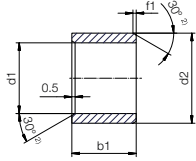


Diagram 07: Wear for oscillating and rotating applications with shaft material Cr53 hardened and ground steel, as a function of the load

## Sleeve bearing (form S)



<sup>2)</sup> Thickness < 0.6mm: Chamfer = 20°

Chamfer in relation to d1

d1 [mm]	Ø 1-6	Ø 6-12	Ø 12-30	Ø > 30
f1 [mm]	0.3	0.5	0.8	1.2

**i** Dimensions according to ISO 3547-1 and special dimensions



Order example: **P210SM-0405-04** – no minimum order quantity.

**P210** iglidur® material **S** Sleeve bearing **M** Metric **04** Inner Ø d1 **05** Outer Ø d2 **04** Total length b1

d1	d1	d2	b1	Part No.
[mm]	Tolerance <sup>3)</sup>	[mm]	[mm]	
4.0		5.5	4.0	P210SM-0405-04
4.0		5.5	6.0	P210SM-0405-06
5.0	+0.020	7.0	5.0	P210SM-0507-05
5.0	+0.068	7.0	10.0	P210SM-0507-10
6.0		8.0	6.0	P210SM-0608-06
6.0		8.0	8.0	P210SM-0608-08
6.0		8.0	10.0	P210SM-0608-10
8.0		10.0	8.0	P210SM-0810-08
8.0		10.0	10.0	P210SM-0810-10
8.0		10.0	12.0	P210SM-0810-12
10.0	+0.025	12.0	8.0	P210SM-1012-08
10.0	+0.083	12.0	10.0	P210SM-1012-10
10.0		12.0	12.0	P210SM-1012-12
10.0		12.0	15.0	P210SM-1012-15
10.0		12.0	20.0	P210SM-1012-20
12.0		14.0	10.0	P210SM-1214-10
12.0		14.0	12.0	P210SM-1214-12
12.0		14.0	15.0	P210SM-1214-15
12.0		14.0	20.0	P210SM-1214-20
13.0		15.0	10.0	P210SM-1315-10
13.0		15.0	20.0	P210SM-1315-20
14.0	+0.032	16.0	15.0	P210SM-1416-15
14.0	+0.102	16.0	20.0	P210SM-1416-20
14.0		16.0	25.0	P210SM-1416-25
15.0		17.0	15.0	P210SM-1517-15
15.0		17.0	20.0	P210SM-1517-20
15.0		17.0	25.0	P210SM-1517-25
16.0		18.0	15.0	P210SM-1618-15
16.0		18.0	20.0	P210SM-1618-20

d1	d1	d2	b1	Part No.
[mm]	Tolerance <sup>3)</sup>	[mm]	[mm]	
16.0		18.0	25.0	P210SM-1618-25
18.0	+0.032	20.0	15.0	P210SM-1820-15
18.0	+0.102	20.0	20.0	P210SM-1820-20
18.0		20.0	25.0	P210SM-1820-25
20.0		23.0	10.0	P210SM-2023-10
20.0		23.0	15.0	P210SM-2023-15
20.0		23.0	20.0	P210SM-2023-20
20.0		23.0	25.0	P210SM-2023-25
20.0		23.0	30.0	P210SM-2023-30
22.0		25.0	15.0	P210SM-2225-15
22.0		25.0	20.0	P210SM-2225-20
22.0		25.0	25.0	P210SM-2225-25
22.0		25.0	30.0	P210SM-2225-30
24.0		27.0	15.0	P210SM-2427-15
24.0		27.0	20.0	P210SM-2427-20
24.0	+0.040	27.0	25.0	P210SM-2427-25
24.0	+0.124	27.0	30.0	P210SM-2427-30
25.0		28.0	15.0	P210SM-2528-15
25.0		28.0	20.0	P210SM-2528-20
25.0		28.0	25.0	P210SM-2528-25
25.0		28.0	30.0	P210SM-2528-30
28.0		32.0	20.0	P210SM-2832-20
28.0		32.0	25.0	P210SM-2832-25
28.0		32.0	30.0	P210SM-2832-30
30.0		34.0	20.0	P210SM-3034-20
30.0		34.0	25.0	P210SM-3034-25
30.0		34.0	30.0	P210SM-3034-30
30.0		34.0	40.0	P210SM-3034-40

<sup>3)</sup> After press-fit. *Testing methods, page 57*

## Product range

d1	d1	d2	b1	Part No.
[mm]	Tolerance <sup>3)</sup>	[mm]	h13 [mm]	
32.0		36.0	20.0	P210SM-3236-20
32.0		36.0	30.0	P210SM-3236-30
32.0		36.0	40.0	P210SM-3236-40
35.0		39.0	20.0	P210SM-3539-20
35.0	+0.050	39.0	30.0	P210SM-3539-30
35.0	+0.150	39.0	40.0	P210SM-3539-40
35.0		39.0	50.0	P210SM-3539-50
40.0		44.0	20.0	P210SM-4044-20
40.0		44.0	30.0	P210SM-4044-30
40.0		44.0	40.0	P210SM-4044-40

d1	d1	d2	b1	Part No.
[mm]	Tolerance <sup>3)</sup>	[mm]	h13 [mm]	
40.0		44.0	50.0	P210SM-4044-50
45.0		50.0	20.0	P210SM-4550-20
45.0		50.0	30.0	P210SM-4550-30
45.0		50.0	40.0	P210SM-4550-40
45.0	+0.050	50.0	50.0	P210SM-4550-50
50.0	+0.150	55.0	20.0	P210SM-5055-20
50.0		55.0	30.0	P210SM-5055-30
50.0		55.0	40.0	P210SM-5055-40
50.0		55.0	50.0	P210SM-5055-50
50.0		55.0	60.0	P210SM-5055-60

<sup>3)</sup> After press-fit. *Testing methods, page 57*



**Available from stock**

Detailed information about delivery time online.

[www.igus.eu/24](http://www.igus.eu/24)



**Online ordering**

Including delivery times, prices, online tools

[www.igus.eu/P210](http://www.igus.eu/P210)



**Ordering note**

Our prices are scaled according to order quantities, current prices can be found online.

### Discount scaling

1 – 9	50 – 99	500 – 999
10 – 24	100 – 199	1,000 – 2,499
25 – 49	200 – 499	2,500 – 4,999

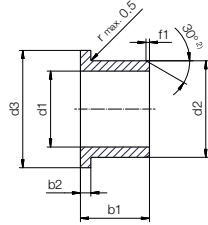
No minimum order value.

No low-quantity surcharges.

Free shipping within Germany for orders above €150.

# Bearing technology | Plain bearing | iglidur® P210

## Flange bearing (form F)



<sup>2)</sup> Thickness < 0.6mm: Chamfer = 20°

Chamfer in relation to d1

d1 [mm]	Ø 1-6	Ø 6-12	Ø 12-30	Ø > 30
f1 [mm]	0.3	0.5	0.8	1.2

**i** Dimensions according to ISO 3547-1 and special dimensions



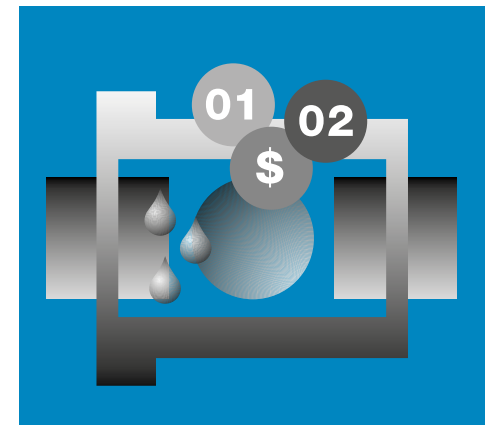
Order example: **P210FM-0608-04** – no minimum order quantity.

**P210** iglidur® material **F** Flange bearing **M** Metric **06** Inner Ø d1 **08** Outer Ø d2 **04** Total length b1

d1	d1	d2	d3	b1	b2	Part No.
[mm]	Tolerance <sup>3)</sup>	[mm]	d13 <sup>3)</sup>	h13	h13	
6.0		8.0	12.0	4.0	1.00	<b>P210FM-0608-04</b>
6.0	+0.020	8.0	12.0	6.0	1.00	<b>P210FM-0608-06</b>
6.0	+0.068	8.0	12.0	8.0	1.00	<b>P210FM-0608-08</b>
8.0		10.0	15.0	5.5	1.00	<b>P210FM-0810-05</b>
8.0		10.0	15.0	7.5	1.00	<b>P210FM-0810-07</b>
8.0		10.0	15.0	9.5	1.00	<b>P210FM-0810-09</b>
8.0		10.0	15.0	10.0	1.00	<b>P210FM-0810-10</b>
8.0	+0.025	10.0	16.0	15.0	1.50	<b>P210FM-081016-15</b>
10.0	+0.083	12.0	18.0	7.0	1.00	<b>P210FM-1012-07</b>
10.0		12.0	18.0	9.0	1.00	<b>P210FM-1012-09</b>
10.0		12.0	18.0	10.0	1.00	<b>P210FM-1012-10</b>
10.0		12.0	18.0	12.0	1.00	<b>P210FM-1012-12</b>
10.0		12.0	18.0	17.0	1.00	<b>P210FM-1012-17</b>
12.0		14.0	20.0	7.0	1.00	<b>P210FM-1214-07</b>
12.0		14.0	20.0	9.0	1.00	<b>P210FM-1214-09</b>
12.0		14.0	20.0	12.0	1.00	<b>P210FM-1214-12</b>
12.0	+0.032	14.0	20.0	17.0	1.00	<b>P210FM-1214-17</b>
14.0	+0.102	16.0	22.0	12.0	1.00	<b>P210FM-1416-12</b>
14.0		16.0	22.0	17.0	1.00	<b>P210FM-1416-17</b>
15.0		17.0	23.0	9.0	1.00	<b>P210FM-1517-09</b>

d1	d1	d2	d3	b1	b2	Part No.
[mm]	Tolerance <sup>3)</sup>	[mm]	d13 <sup>3)</sup>	h13	h13	
15.0		17.0	23.0	12.0	1.00	<b>P210FM-1517-12</b>
15.0		17.0	23.0	17.0	1.00	<b>P210FM-1517-17</b>
16.0		18.0	24.0	12.0	1.00	<b>P210FM-1618-12</b>
16.0	+0.032	18.0	24.0	17.0	1.00	<b>P210FM-1618-17</b>
18.0	+0.102	20.0	26.0	12.0	1.00	<b>P210FM-1820-12</b>
18.0		20.0	26.0	17.0	1.00	<b>P210FM-1820-17</b>
18.0		20.0	26.0	22.0	1.00	<b>P210FM-1820-22</b>
20.0		23.0	30.0	11.5	1.50	<b>P210FM-2023-11</b>
20.0		23.0	30.0	16.5	1.50	<b>P210FM-2023-16</b>
20.0		23.0	30.0	21.5	1.50	<b>P210FM-2023-21</b>
25.0		28.0	35.0	11.5	1.50	<b>P210FM-2528-11</b>
25.0		28.0	35.0	16.5	1.50	<b>P210FM-2528-16</b>
25.0		28.0	35.0	21.5	1.50	<b>P210FM-2528-21</b>
25.0	+0.040	28.0	35.0	16.0	2.00	<b>P210FM-3034-16</b>
30.0	+0.124	34.0	42.0	26.0	2.00	<b>P210FM-3034-26</b>
30.0		34.0	42.0	26.0	2.00	<b>P210FM-3034-26</b>
35.0		39.0	47.0	16.0	2.00	<b>P210FM-3539-16</b>
35.0		39.0	47.0	26.0	2.00	<b>P210FM-3539-26</b>
40.0		44.0	52.0	30.0	2.00	<b>P210FM-4044-30</b>
40.0		44.0	52.0	40.0	2.00	<b>P210FM-4044-40</b>
45.0		50.0	58.0	50.0	2.00	<b>P210FM-4550-50</b>

<sup>3)</sup> After press-fit. *Testing methods, page 57*



## The low-cost all-rounder

Well-balanced properties at a low price

## iglidur® P230



When to use it?

- When a cost-effective all-round bearing for high volumes is required
- When a low-cost bearing with low moisture absorption is required
- When low pv values occur



When not to use?

- When a cost-effective all-rounder for small quantities is required  
*iglidur® G*
- When high wear resistance is required  
*iglidur® G, iglidur® G1*
- When continuous operating temperatures are higher than +110°C  
*iglidur® G, iglidur® G1*