



The classic all-rounder

Excellent price-performance ratio

iglidur® G



When to use it?

- When an economical all-round performance bearing is required
- For low to medium speeds
- When the bearing needs to run on different shaft materials
- For pivoting and rotational movements



When not to use?

- When mechanical reaming of the bore is necessary
iglidur® M250
- When lowest wear is required
iglidur® W300
- When universal chemical resistance is required
iglidur® X
- When continuous operating temperatures are higher than +130°C
iglidur® H, iglidur® X, iglidur® H370
- For underwater applications
iglidur® H370

Bearing technology | Plain bearing | iglidur® G



Ø
1.5 –
195.0mm



Also available
as:



Bar stock,
round bar
Page 657



Bar stock,
plate
Page 683



tribo-tape liner
Page 691



Piston rings
Page 584



Two hole
flange
bearings
Page 603



Moulded
special parts
Page 624



igubal®
spherical balls
Page 841

The classic all-rounder Excellent price-performance ratio

iglidur® G plain bearings cover an extremely wide range of different requirements – they are truly "all-round". The material is ideal for universal applications, a truly "all-round". Typical applications include medium to high loads, medium surface speeds and medium temperatures.

- Over 650 sizes available from stock
- High wear resistance
- Resistant to dirt
- Cost-effective
- Lubrication-free
- Maintenance-free

Typical application areas

- Agricultural machines
- Construction machinery industry
- Sports and leisure
- Automotive industry
- Mechatronics
- Machine building

Descriptive technical specifications

Wear resistance at +23°C	-	<div style="width: 40%; background-color: #0070C0;"></div>	+
Wear resistance at +90°C	-	<div style="width: 40%; background-color: #0070C0;"></div>	+
Wear resistance at +150°C	-	<div style="width: 20%; background-color: #0070C0;"></div>	+
Low coefficient of friction	-	<div style="width: 80%; background-color: #0070C0;"></div>	+
Low moisture absorption	-	<div style="width: 40%; background-color: #0070C0;"></div>	+
Wear resistance under water	-	<div style="width: 10%; background-color: #0070C0;"></div>	+
High media resistance	-	<div style="width: 40%; background-color: #0070C0;"></div>	+
Resistant to edge pressures	-	<div style="width: 60%; background-color: #0070C0;"></div>	+
Suitable for shock and impact loads	-	<div style="width: 60%; background-color: #0070C0;"></div>	+
Resistant to dirt	-	<div style="width: 80%; background-color: #0070C0;"></div>	+

Online product finder
www.igus.eu/iglidur-finder

Online service life calculation
www.igus.eu/iglidur-expert

Technical data

General properties		Testing method	
Density	g/cm ³	1.46	
Colour		matt grey	
Max. moisture absorption at +23°C and 50% r.h.	% weight	0.7	DIN 53495
Max. moisture absorption	% weight	4.0	
Coefficient of friction, dynamic, against steel	μ	0.08 – 0.15	
pv value, max. (dry)	MPa · m/s	0.42	
Mechanical properties			
Flexural modulus	MPa	7,800	DIN 53457
Flexural strength at +20°C	MPa	210	DIN 53452
Compressive strength	MPa	78	
Max. recommended surface pressure (+20°C)	MPa	80	
Shore D hardness		81	DIN 53505
Physical and thermal properties			
Max. application temperature long-term	°C	+130	
Max. application temperature short-term	°C	+220	
Min. application temperature	°C	-40	
Thermal conductivity	W/m · K	0.24	ASTM C 177
Coefficient of thermal expansion (at +23°C)	K ⁻¹ · 10 ⁻⁵	9	DIN 53752
Electrical properties			
Specific contact resistance	Ωcm	> 10 ¹³	DIN IEC 93
Surface resistance	Ω	> 10 ¹¹	DIN 53482

Table 01: Material properties

iglidur® G is the decathlete among iglidur® materials. It performs exceedingly well in all technical disciplines and is the classic all-rounder, primarily with respect to the overall general, mechanical, thermal and tribological specifications.

Moisture absorption

Under standard climatic conditions, the moisture absorption of iglidur® G plain bearings is approximately 0.7% weight. The saturation limit in water is 4.0% weight. This must be taken into account for these types of applications.

Vacuum

In vacuum, any present moisture is released as vapour. Use in vacuum is only possible with dehumidified iglidur® G bearings.

Radiation resistance

Plain bearings made from iglidur® G are resistant up to a radiation intensity of 3 · 10²Gy.

Resistance to weathering

iglidur® G plain bearings are resistant to weathering. The material properties are slightly affected. Discoloration occurs.

Mechanical properties

With increasing temperatures, the compressive strength of iglidur® G plain bearings decreases. Diagram 02 shows this inverse relationship. However, at the long-term maximum temperature of +130°C the permissible surface pressure is around 35MPa. 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® G at radial loads. The plastic deformation is minimal up to a pressure of approximately 100MPa. However, it is also dependent on the service time.

Surface pressure, page 41



-40°C up to
+130°C



80MPa



HB



RoHS



ISO
35474

Permissible surface speeds

iglidur® G has been developed for low to medium surface speeds. The maximum values shown in table 03 can only be achieved at low pressures. At the given speeds, friction can cause a temperature increase to maximum permissible levels. In practice, though, this level is rarely reached due to varying application conditions.

Surface speed, page 44

Temperature

The ambient temperatures strongly influence the properties of plain bearings. The temperatures prevailing in the bearing system also have an influence on the wear. With increasing temperatures, the wear increases and this effect is significant when temperatures rise over +120°C. For temperatures over +80°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 μ 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

The friction and wear are also dependent, to a large degree, on the shaft material. Shafts that are too smooth, increase both the coefficient of friction and the wear of the bearing. For iglidur® G a ground surface with an average surface finish $R_a = 0.8\mu\text{m}$ is recommended. Diagram 06 shows results of testing different shaft materials with plain bearings made from iglidur® G. It is important to notice that with increasing loads, the recommended hardness of the shaft increases. The "soft" shafts tend to wear more easily and thus the wear of the overall system increases. If the loads exceed 2MPa it is important to recognise that the wear rate (the gradient of the curves) clearly decreases with the hard shaft materials. If the shaft material you plan on using is not shown in these test results, please contact us.

Shaft materials, page 52

Installation tolerances

iglidur® G 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	+ up to 0
Diluted acids	0 up to -
Diluted alkalines	+
Fuels	+
Greases, oils without additives	+
Hydrocarbons	+
Strong acids	-
Strong alkalines	0

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	4.0
short-term	m/s 2.0	1.4	5.0

Table 03: Maximum surface speeds

	Dry	Greases	Oil	Water
Coefficient of friction μ	0.08 - 0.15	0.09	0.04	0.04

Table 04: Coefficient of friction against steel ($R_a = 1\mu\text{m}$, 50HRC)

	Housing	Plain bearing	Shaft			
$\varnothing d1$ [mm]	H7 [mm]	E10 [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

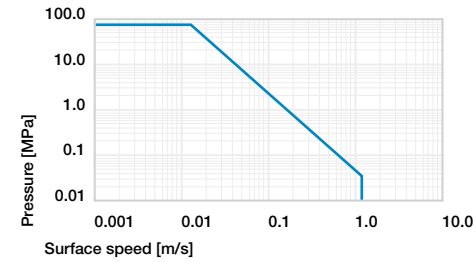


Diagram 01: Permissible pv values for iglidur® G plain bearings with a wall thickness of 1mm, dry operation against a steel shaft, at +20°C, mounted in a steel housing

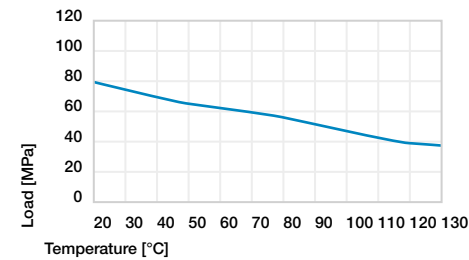


Diagram 02: Maximum recommended surface pressure as a function of temperature (80MPa at +20°C)

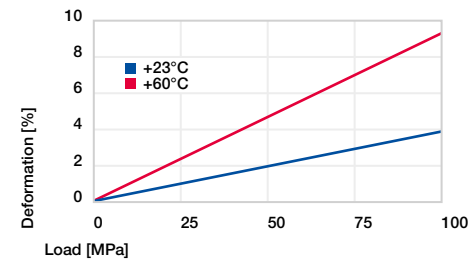


Diagram 03: Deformation under pressure and temperature

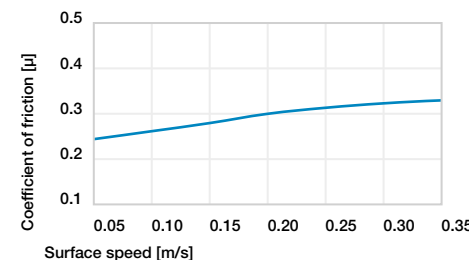


Diagram 04: Coefficient of friction as a function of the surface speed, $p = 0.75\text{MPa}$

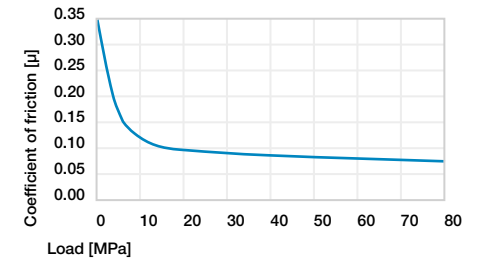


Diagram 05: Coefficient of friction as a function of the load, $v = 0.01\text{m/s}$

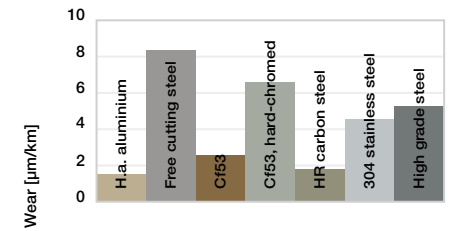


Diagram 06: Wear, rotating with different shaft materials, pressure, $p = 1\text{MPa}$, $v = 0.3\text{m/s}$

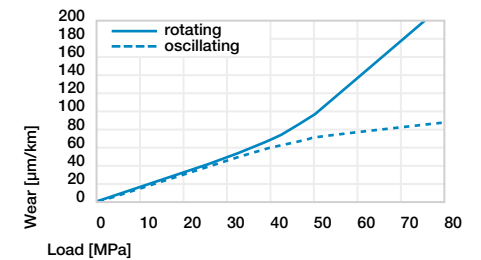
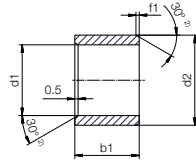


Diagram 07: Wear for oscillating and rotating applications with shaft material Cf53 hardened and ground steel, as a function of the load

Bearing technology | Plain bearing | iglidur® G

Sleeve bearing (form S)



²⁾ 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



Dimensions according to ISO 3547-1 and special dimensions



Order example: **GSM-0103-02** – no minimum order quantity.

G iglidur® material **S** Sleeve bearing **M** Metric **01** Inner Ø d1 **03** Outer Ø d2 **02** Total length b1

d1	d1	d2	b1	Part No.	d1	d1	d2	b1	Part No.
[mm]	Tolerance ³⁾	[mm]	[mm]		[mm]	Tolerance ³⁾	[mm]	[mm]	
1.5		3.0	2.0	GSM-0103-02	6.0		8.0	8.0	GSM-0608-08
2.0		3.5	3.0	GSM-0203-03	6.0		8.0	9.5	GSM-0608-09
2.5	+0.014	4.5	5.0	GSM-02504-05	6.0	+0.020	8.0	10.0	GSM-0608-10
3.0	+0.054	4.5	3.0	GSM-0304-03	6.0	+0.068	8.0	11.8	GSM-0608-11
3.0		4.5	5.0	GSM-0304-05	6.0		8.0	13.8	GSM-0608-13
3.0		4.5	6.0	GSM-0304-06	7.0	+0.013	8.0	10.0	GSM-0708-10
4.0		5.5	4.0	GSM-0405-04	7.0	+0.049	8.0	19.0	GSM-0708-19
4.0	+0.020	5.5	6.0	GSM-0405-06	7.0		9.0	8.0	GSM-0709-08
4.0	+0.068	7.0	5.5	GSM-0407-05	7.0	+0.025	9.0	9.0	GSM-0709-09
4.5		6.0	8.0	GSM-0406-08	7.0	+0.083	9.0	10.0	GSM-0709-10
5.0		6.0	4.6	GSM-0506-046	7.0		9.0	12.0	GSM-0709-12
5.0	+0.010	6.0	5.0	GSM-0506-05	8.0		9.0	5.0	GSM-0809-05
5.0	+0.040	6.0	7.0	GSM-0506-07	8.0	+0.013	9.0	6.0	GSM-0809-06
5.0		7.0	5.0	GSM-0507-05	8.0	+0.049	9.0	8.0	GSM-0809-08
5.0	+0.020	7.0	7.0	GSM-0507-07	8.0		9.0	12.0	GSM-0809-12
5.0	+0.068	7.0	8.0	GSM-0507-08	8.0		10.0	5.0	GSM-0810-05
5.0		7.0	10.0	GSM-0507-10	8.0		10.0	6.0	GSM-0810-06
6.0		7.0	6.0	GSM-0607-06	8.0		10.0	6.8	GSM-0810-07
6.0		7.0	12.0	GSM-0607-12	8.0		10.0	8.0	GSM-0810-08
6.0	+0.010	7.0	17.0	GSM-0607-17	8.0		10.0	10.0	GSM-0810-10
6.0	+0.040	7.0	17.5	GSM-0607-17.5	8.0		10.0	12.0	GSM-0810-12
6.0		7.0	19.0	GSM-0607-19	8.0	+0.025	10.0	13.8	GSM-0810-13
6.0		8.0	1.5	GSM-0608-015	8.0	+0.083	10.0	14.0	GSM-0810-14
6.0		8.0	2.5	GSM-0608-025	8.0		10.0	15.0	GSM-0810-15
6.0		8.0	3.0	GSM-0608-03	8.0		10.0	16.0	GSM-0810-16
6.0	+0.020	8.0	4.0	GSM-0608-04	8.0		10.0	18.0	GSM-0810-18
6.0	+0.068	8.0	5.0	GSM-0608-05	8.0		10.0	20.0	GSM-0810-20
6.0		8.0	5.5	GSM-0608-055	8.0		10.0	22.0	GSM-0810-22
6.0		8.0	6.0	GSM-0608-06	8.0		10.0	25.0	GSM-0810-25

³⁾ After press-fit. Testing methods, page 57

Product range

d1	d1	d2	b1	Part No.	d1	d1	d2	b1	Part No.
[mm]	Tolerance ³⁾	[mm]	[mm]		[mm]	Tolerance ³⁾	[mm]	[mm]	
8.0	+0.040 +0.130	12.0	9.0	GSM-0812-09	13.0		15.0	7.0	GSM-1315-070
9.0	+0.013	10.0	12.0	GSM-0910-12	13.0		15.0	7.5	GSM-1315-075
9.0	+0.049	10.0	16.0	GSM-0910-16	13.0		15.0	10.0	GSM-1315-10
9.0	+0.025	11.0	6.0	GSM-0911-06	13.0		15.0	15.0	GSM-1315-15
9.0	+0.083	11.0	20.0	GSM-0911-20	13.0		15.0	20.0	GSM-1315-20
10.0		11.0	6.0	GSM-1011-06	13.0		15.0	25.0	GSM-1315-25
10.0		11.0	7.0	GSM-1011-07	14.0	+0.032	16.0	3.0	GSM-1416-03
10.0	+0.013	11.0	10.0	GSM-1011-10	14.0	+0.102	16.0	6.0	GSM-1416-06
10.0	+0.049	11.0	20.0	GSM-1011-20	14.0		16.0	8.0	GSM-1416-08
10.0		11.0	25.0	GSM-1011-25	14.0		16.0	10.0	GSM-1416-10
10.0		11.0	30.0	GSM-1011-30	14.0		16.0	12.0	GSM-1416-12
10.0		12.0	4.0	GSM-1012-04	14.0		16.0	15.0	GSM-1416-15
10.0		12.0	4.5	GSM-1012-045	14.0		16.0	20.0	GSM-1416-20
10.0		12.0	5.0	GSM-1012-05	14.0		16.0	25.0	GSM-1416-25
10.0		12.0	6.0	GSM-1012-06	14.0		16.0	45.0	GSM-1416-45
10.0		12.0	7.0	GSM-1012-07	15.0	+0.016	16.0	10.0	GSM-1516-10
10.0		12.0	8.0	GSM-1012-08	15.0	+0.059	16.0	15.0	GSM-1516-15
10.0	+0.025	12.0	9.0	GSM-1012-09	15.0		17.0	4.0	GSM-1517-04
10.0	+0.083	12.0	10.0	GSM-1012-10	15.0		17.0	10.0	GSM-1517-10
10.0		12.0	12.0	GSM-1012-12	15.0		17.0	12.0	GSM-1517-12
10.0		12.0	14.0	GSM-1012-14	15.0		17.0	15.0	GSM-1517-15
10.0		12.0	15.0	GSM-1012-15	15.0		17.0	20.0	GSM-1517-20
10.0		12.0	17.0	GSM-1012-17	15.0		17.0	25.0	GSM-1517-25
10.0		12.0	20.0	GSM-1012-20	16.0		18.0	5.5	GSM-1618-055
10.0		13.0	13.5	GSM-1013-13	16.0		18.0	8.0	GSM-1618-08
10.0	+0.025	14.0	10.0	GSM-1014-10	16.0	+0.032	18.0	10.0	GSM-1618-10
10.0	+0.115	14.0	20.0	GSM-1014-20	16.0	+0.102	18.0	12.0	GSM-1618-12
10.0	+0.040 +0.130	16.0	10.0	GSM-1016-10	16.0		18.0	13.5	GSM-1618-13.5
12.0		13.0	4.7	GSM-1213-047	16.0		18.0	15.0	GSM-1618-15
12.0	+0.016	13.0	10.0	GSM-1213-10	16.0		18.0	20.0	GSM-1618-20
12.0	+0.059	13.0	12.0	GSM-1213-12	16.0		18.0	25.0	GSM-1618-25
12.0		13.0	15.0	GSM-1213-15	16.0		18.0	30.0	GSM-1618-30
12.0		14.0	4.0	GSM-1214-04	16.0		18.0	38.5	GSM-1618-38.5
12.0		14.0	5.0	GSM-1214-05	16.0		18.0	50.0	GSM-1618-50
12.0		14.0	6.0	GSM-1214-06	17.0		19.0	15.0	GSM-1719-15
12.0		14.0	8.0	GSM-1214-08	18.0	+0.016 +0.059	19.0	15.0	GSM-1819-15
12.0		14.0	10.0	GSM-1214-10	18.0		20.0	6.0	GSM-1820-06
12.0	+0.032	14.0	12.0	GSM-1214-12	18.0		20.0	10.0	GSM-1820-10
12.0	+0.102	14.0	14.0	GSM-1214-14	18.0		20.0	12.0	GSM-1820-12
12.0		14.0	15.0	GSM-1214-15	18.0		20.0	15.0	GSM-1820-15
12.0		14.0	20.0	GSM-1214-20	18.0	+0.032	20.0	20.0	GSM-1820-20
12.0		14.0	25.0	GSM-1214-25	18.0	+0.102	20.0	25.0	GSM-1820-25
12.0		15.0	6.0	GSM-1215-06	18.0		20.0	34.0	GSM-1820-34
12.0		15.0	22.0	GSM-1215-22	18.0		20.0	38.0	GSM-1820-38
12.0	+0.050	16.0	10.0	GSM-1216-10	18.0		20.0	45.0	GSM-1820-45
12.0	+0.160	16.0	20.0	GSM-1216-20	18.0		22.0	30.0	GSM-1822-30

³⁾ After press-fit. Testing methods, page 57

Bearing technology | Plain bearing | iglidur® G


d1	d1	d2	b1	Part No.	d1	d1	d2	b1	Part No.
[mm]	Tolerance ³⁾	[mm]	h13		[mm]	Tolerance ³⁾	[mm]	h13	
19.0		22.0	6.0	GSM-1922-06	25.0		28.0	24.0	GSM-2528-24
19.0	+0.040	22.0	28.0	GSM-1922-28	25.0		28.0	25.0	GSM-2528-25
19.0	+0.124	22.0	35.0	GSM-1922-35	25.0		28.0	30.0	GSM-2528-30
20.0	+0.020	21.0	20.0	GSM-2021-20	25.0		28.0	35.0	GSM-2528-35
	+0.072				25.0		28.0	50.0	GSM-2528-50
20.0		22.0	3.0	GSM-2022-03	26.0		30.0	16.0	GSM-2630-16
20.0		22.0	8.0	GSM-2022-08	27.0	+0.040	30.0	5.0	GSM-2730-05
20.0		22.0	10.5	GSM-2022-105	28.0	+0.124	32.0	10.5	GSM-2832-105
20.0		22.0	15.0	GSM-2022-15	28.0		32.0	12.0	GSM-2832-12
20.0		22.0	20.0	GSM-2022-20	28.0		32.0	15.0	GSM-2832-15
20.0		22.0	22.0	GSM-2022-22	28.0		32.0	20.0	GSM-2832-20
20.0		22.0	28.0	GSM-2022-28	28.0		32.0	23.0	GSM-2832-23
20.0		22.0	30.0	GSM-2022-30	28.0		32.0	25.0	GSM-2832-25
20.0		22.0	47.0	GSM-2022-47	28.0		32.0	30.0	GSM-2832-30
20.0		23.0	4.5	GSM-2023-045	28.0	+0.065	35.0	19.0	GSM-2835-19
20.0		23.0	10.0	GSM-2023-10	28.0	+0.195	35.0	28.0	GSM-2835-28
20.0		23.0	15.0	GSM-2023-15	29.0	+0.040	33.0	6.0	GSM-2933-06
20.0		23.0	20.0	GSM-2023-20		+0.124			
20.0		23.0	24.0	GSM-2023-24	30.0	+0.020	31.0	5.0	GSM-3031-05
20.0	+0.040	23.0	25.0	GSM-2023-25	30.0	+0.072	31.0	12.0	GSM-3031-12
20.0	+0.124	23.0	30.0	GSM-2023-30	30.0		31.0	30.0	GSM-3031-30
20.0		23.0	35.0	GSM-2023-35	30.0		34.0	12.0	GSM-3034-12
22.0		24.0	8.0	GSM-2224-08	30.0		34.0	15.0	GSM-3034-15
22.0		24.0	10.0	GSM-2224-10	30.0		34.0	20.0	GSM-3034-20
22.0		24.0	12.0	GSM-2224-12	30.0		34.0	24.0	GSM-3034-24
22.0		24.0	15.0	GSM-2224-15	30.0	+0.040	34.0	25.0	GSM-3034-25
22.0		24.0	17.0	GSM-2224-17	30.0	+0.124	34.0	30.0	GSM-3034-30
22.0		24.0	20.0	GSM-2224-20	30.0		34.0	35.0	GSM-3034-35
22.0		24.0	30.0	GSM-2224-30	30.0		34.0	40.0	GSM-3034-40
22.0		24.0	48.0	GSM-2224-48	30.0		34.0	52.5	GSM-3034-525
22.0		25.0	15.0	GSM-2225-15	32.0		36.0	15.0	GSM-3236-15
22.0		25.0	20.0	GSM-2225-20	32.0		36.0	20.0	GSM-3236-20
22.0		25.0	25.0	GSM-2225-25	32.0		36.0	30.0	GSM-3236-30
22.0		25.0	30.0	GSM-2225-30	32.0		36.0	40.0	GSM-3236-40
22.0		25.0	38.5	GSM-2225-38.5	35.0		39.0	14.0	GSM-3539-14
24.0	+0.020	25.0	25.0	GSM-2425-25	35.0		39.0	20.0	GSM-3539-20
	+0.072				35.0		39.0	25.0	GSM-3539-25
24.0		27.0	6.0	GSM-2427-06	35.0		39.0	30.0	GSM-3539-30
24.0		27.0	15.0	GSM-2427-15	35.0	+0.050	39.0	40.0	GSM-3539-40
24.0	+0.040	27.0	20.0	GSM-2427-20	35.0	+0.150	39.0	50.0	GSM-3539-50
24.0	+0.124	27.0	24.0	GSM-2427-24	35.0		41.0	50.0	GSM-3541-50
24.0		27.0	25.0	GSM-2427-25	36.0		40.0	20.0	GSM-3640-20
24.0		27.0	30.0	GSM-2427-30	37.0		41.0	20.0	GSM-3741-20
25.0	+0.020	26.0	23.0	GSM-2526-23	38.0		42.0	25.0	GSM-3842-25
25.0	+0.072	26.0	25.0	GSM-2526-25	40.0		44.0	10.0	GSM-4044-10
25.0		28.0	12.0	GSM-2528-12	40.0		44.0	16.5	GSM-4044-16
25.0	+0.040	28.0	15.0	GSM-2528-15	40.0		44.0	20.0	GSM-4044-20
25.0	+0.124	28.0	20.0	GSM-2528-20	40.0		44.0	30.0	GSM-4044-30

³⁾ After press-fit. *Testing methods, page 57*


Product range

d1	d1	d2	b1	Part No.	d1	d1	d2	b1	Part No.
[mm]	Tolerance ³⁾	[mm]	h13		[mm]	Tolerance ³⁾	[mm]	h13	
40.0		44.0	40.0	GSM-4044-40	62.0	+0.100	67.0	35.0	GSM-6267-35
40.0		44.0	50.0	GSM-4044-50		+0.250			
40.0		44.0	52.5	GSM-4044-525	62.0		67.0	72.0	GSM-6267-72
42.0		46.0	40.0	GSM-4246-40	65.0		70.0	104.0	GSM-6570-104
44.0		48.0	20.0	GSM-4448-20	65.0		70.0	30.0	GSM-6570-30
45.0		50.0	10.0	GSM-4550-10	65.0		70.0	50.0	GSM-6570-50
45.0		50.0	20.0	GSM-4550-20	68.0		73.0	60.0	GSM-6873-60
45.0		50.0	22.0	GSM-4550-22	70.0	+0.060	75.0	60.0	GSM-7075-60
45.0		50.0	23.5	GSM-4550-235	72.0	+0.180	77.0	24.5	GSM-7277-24.5
45.0	+0.050	50.0	30.0	GSM-4550-30	72.0		77.0	76.0	GSM-7277-76
45.0	+0.150	50.0	38.0	GSM-4550-38	75.0		80.0	40.0	GSM-7580-40
45.0		50.0	40.0	GSM-4550-40	75.0		80.0	60.0	GSM-7580-60
45.0		50.0	50.0	GSM-4550-50	80.0		85.0	100.0	GSM-8085-100
50.0		55.0	20.0	GSM-5055-20	80.0		85.0	60.0	GSM-8085-60
50.0		55.0	25.0	GSM-5055-25	85.0		90.0	100.0	GSM-8590-100
50.0		55.0	30.0	GSM-5055-30	90.0		95.0	100.0	GSM-9095-100
50.0		55.0	40.0	GSM-5055-40	95.0		100.0	100.0	GSM-95100-100
50.0		55.0	50.0	GSM-5055-50	100.0		105.0	100.0	GSM-100105-100
50.0		55.0	60.0	GSM-5055-60	100.0	+0.072	105.0	21.5	GSM-100105-21.5
52.0		57.0	20.0	GSM-5257-20	100.0	+0.212	105.0	30.0	GSM-100105-30
55.0		60.0	20.0	GSM-5560-20	100.0		105.0	32.0	GSM-100105-32
55.0		60.0	40.0	GSM-5560-40	105.0		110.0	100.0	GSM-105110-100
55.0		60.0	50.0	GSM-5560-50	110.0		115.0	100.0	GSM-110115-100
55.0	+0.060	60.0	60.0	GSM-5560-60	120.0		125.0	100.0	GSM-120125-100
60.0	+0.180	65.0	30.0	GSM-6065-30	125.0		130.0	100.0	GSM-125130-100
60.0		65.0	40.0	GSM-6065-40	130.0		135.0	100.0	GSM-130135-100
60.0		65.0	50.0	GSM-6065-50	135.0	+0.085	140.0	80.0	GSM-135140-80
60.0		65.0	60.0	GSM-6065-60	140.0	+0.245	145.0	100.0	GSM-140145-100
60.0		65.0	70.0	GSM-6065-70	140.0		145.0	104.0	GSM-140145-104
					150.0		155.0	100.0	GSM-150155-100

³⁾ After press-fit. *Testing methods, page 57*

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 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® G

d1	d1	d2	d3	b1	b2	Part No.	d1	d1	d2	d3	b1	b2	Part No.
[mm]	Tolerance ³⁾	[mm]	d13 ³⁾	h13	h13		[mm]	Tolerance ³⁾	[mm]	d13 ³⁾	h13	h13	
16.0		18.0	24.0	9.0	1.00	GFM-1618-09	28.0		30.0	36.0	31.0	1.00	GFM-283036-31
16.0		18.0	24.0	12.0	1.00	GFM-1618-12	28.0		30.0	35.0	36.0	1.00	GFM-2830-36
16.0		18.0	24.0	16.0	1.00	GFM-1618-16	28.0		30.0	35.0	48.0	1.00	GFM-2830-48
16.0		18.0	24.0	17.0	1.00	GFM-1618-17	28.0		32.0	39.0	20.0	2.00	GFM-283239-20
16.0		18.0	24.0	21.0	1.00	GFM-1618-21	28.0		32.0	50.0	35.0	2.00	GFM-283250-35
17.0		19.0	25.0	9.0	1.00	GFM-1719-09	30.0		31.0	36.0	20.0	0.50	GFM-3031-20
17.0		19.0	25.0	16.0	1.00	GFM-1719-16	30.0		31.0	35.0	30.0	0.50	GFM-3031-30
17.0		19.0	25.0	25.0	1.00	GFM-1719-25	30.0		32.0	37.0	4.0	1.00	GFM-3032-04
18.0		20.0	26.0	4.0	1.00	GFM-1820-04	30.0	+0.040	32.0	37.0	12.0	1.00	GFM-3032-12
18.0	+0.032	20.0	26.0	6.0	1.00	GFM-1820-06	30.0	+0.124	32.0	37.0	17.5	1.00	GFM-3032-17
18.0	+0.102	20.0	22.0	6.0	1.00	GFM-182022-06	30.0		32.0	37.0	22.0	1.00	GFM-3032-22
18.0		20.0	26.0	9.0	1.00	GFM-1820-09	30.0		34.0	42.0	9.0	2.00	GFM-3034-09
18.0		20.0	26.0	11.0	1.00	GFM-1820-11	30.0		34.0	40.0	10.0	2.00	GFM-303440-10
18.0		20.0	26.0	12.0	1.00	GFM-1820-12	30.0		34.0	42.0	16.0	2.00	GFM-3034-16
18.0		20.0	26.0	17.0	1.00	GFM-1820-17	30.0		34.0	42.0	20.0	2.00	GFM-3034-20
18.0		20.0	26.0	22.0	1.00	GFM-1820-22	30.0		34.0	42.0	26.0	2.00	GFM-3034-26
18.0		20.0	26.0	30.0	1.00	GFM-1820-30	30.0		34.0	42.0	37.0	2.00	GFM-3034-37
18.0		20.0	26.0	32.0	1.00	GFM-1820-32	32.0		36.0	40.0	16.0	2.00	GFM-3236-16
18.0		22.0	26.0	28.0	2.00	GFM-1822-28	32.0		36.0	40.0	26.0	2.00	GFM-3236-26
20.0		21.0	26.0	3.5	0.50	GFM-2021-035	34.0		38.0	50.0	35.0	2.00	GFM-343850-35
20.0	+0.020	21.0	25.0	15.0	0.50	GFM-2021-15	35.0		39.0	47.0	5.8	2.00	GFM-3539-058
20.0	+0.072	21.0	25.0	20.0	0.50	GFM-2021-20	35.0		39.0	47.0	7.0	2.00	GFM-3539-07
20.0		23.0	30.0	7.0	1.50	GFM-2023-07	35.0		39.0	47.0	12.0	2.00	GFM-3539-12
20.0		23.0	26.0	7.0	1.50	GFM-202326-07	35.0		39.0	47.0	16.0	2.00	GFM-3539-16
20.0		23.0	30.0	11.5	1.50	GFM-2023-11	35.0		39.0	47.0	26.0	2.00	GFM-3539-26
20.0		23.0	28.0	15.0	1.50	GFM-202328-15	35.0		39.0	47.0	36.0	2.00	GFM-3539-36
20.0		23.0	30.0	16.5	1.50	GFM-2023-16	38.0		42.0	54.0	10.0	2.00	GFM-3842-10
20.0		23.0	29.0	20.0	1.50	GFM-202329-20	38.0		42.0	54.0	22.0	2.00	GFM-3842-22
20.0		23.0	30.0	21.5	1.50	GFM-2023-21	40.0		44.0	52.0	7.0	2.00	GFM-4044-07
20.0	+0.040	23.0	26.0	21.5	1.50	GFM-202326-21	40.0		44.0	52.0	14.0	2.00	GFM-4044-14
22.0	+0.124	24.0	30.0	25.0	1.00	GFM-2224-25	40.0	+0.050	44.0	52.0	20.0	2.00	GFM-4044-20
22.0		25.0	29.0	4.5	1.50	GFM-222529-045	40.0	+0.150	44.0	52.0	30.0	2.00	GFM-4044-30
22.0		25.0	30.0	21.5	1.50	GFM-222530-215	40.0		44.0	52.0	40.0	2.00	GFM-4044-40
22.0		25.0	30.0	25.0	1.50	GFM-222530-25	40.0		44.0	52.0	50.0	2.00	GFM-4044-50
22.0		25.0	35.0	31.5	1.50	GFM-222535-315	40.0		46.0	50.0	20.0	2.00	GFM-4046-20
24.0		27.0	32.0	7.0	1.50	GFM-2427-07	42.0		46.0	53.0	19.0	2.00	GFM-4246-19
24.0		27.0	32.0	10.5	1.50	GFM-2427-10	45.0		50.0	58.0	25.0	2.00	GFM-4550-25
25.0	+0.020	26.0	30.0	25.0	0.50	GFM-2526-25	45.0		50.0	58.0	30.0	2.00	GFM-4550-30
25.0	+0.072	27.0	32.0	7.0	1.00	GFM-2527-07	45.0		50.0	58.0	50.0	2.00	GFM-4550-50
25.0		27.0	32.0	48.0	1.00	GFM-2527-48	50.0		55.0	63.0	7.0	2.00	GFM-5055-07
25.0		28.0	30.0	10.0	1.50	GFM-252830-10	50.0		55.0	63.0	10.0	2.00	GFM-5055-10
25.0		28.0	35.0	11.5	1.50	GFM-2528-11	50.0		55.0	63.0	25.0	2.00	GFM-5055-25
25.0	+0.040	28.0	35.0	16.5	1.50	GFM-2528-16	50.0		55.0	63.0	40.0	2.00	GFM-5055-40
25.0	+0.124	28.0	35.0	21.5	1.50	GFM-2528-21	50.0		55.0	63.0	50.0	2.00	GFM-5055-50
26.0		30.0	37.0	12.0	2.00	GFM-2630-12	60.0	+0.060	65.0	73.0	7.0	2.00	GFM-6065-07
27.0		30.0	38.0	20.0	1.50	GFM-2730-20	60.0	+0.180	65.0	73.0	22.0	2.00	GFM-6065-22
28.0		30.0	36.0	10.0	1.00	GFM-2830-10	60.0		65.0	73.0	30.0	2.00	GFM-6065-30
							60.0		65.0	73.0	50.0	2.00	GFM-6065-50

³⁾ After press-fit. *Testing methods, page 57*

Product range

d1	d1	d2	d3	b1	b2	Part No.	d1	d1	d2	d3	b1	b2	Part No.
[mm]	Tolerance ³⁾	[mm]	d13 ³⁾	h13	h13		[mm]	Tolerance ³⁾	[mm]	d13 ³⁾	h13	h13	
60.0		65.0	80.0	62.0	2.00	GFM-606580-62	100.0		105.0	113.0	100.0	2.50	GFM-100105-100
65.0		70.0	78.0	50.0	2.00	GFM-6570-50	110.0	+0.072	115.0	123.0	100.0	2.50	GFM-110115-100
70.0		75.0	83.0	50.0	2.00	GFM-7075-50	120.0	+0.212	125.0	133.0	80.0	2.50	GFM-120125-80
70.0	+0.060	75.0	83.0	85.5	2.00	GFM-7075-855	120.0		125.0	133.0	100.0	2.50	GFM-120125-100
75.0	+0.180	80.0	88.0	50.0	2.00	GFM-7580-50	125.0		130.0	138.0	100.0	2.50	GFM-125130-100
80.0		85.0	93.0	50.0	2.50	GFM-8085-50	130.0		135.0	143.0	100.0	2.50	GFM-130135-100
80.0		85.0	93.0	100.0	2.50	GFM-8085-100	140.0	+0.085	145.0	153.0	100.0	2.50	GFM-140145-100
85.0		90.0	98.0	100.0	2.50	GFM-8590-100	150.0	+0.245	155.0	163.0	40.0	2.50	GFM-150155-40
90.0	+0.072	95.0	103.0	100.0	2.50	GFM-9095-100	150.0		155.0	163.0	100.0	2.50	GFM-150155-100
95.0	+0.212	100.0	108.0	100.0	2.50	GFM-95100-100	195.0	+0.100	205.0	240.0	65.0	5.00	GFM-195205240-65
100.0		105.0	113.0	42.5	2.50	GFM-100105-425		+0.285					

³⁾ After press-fit. *Testing methods, page 57*



Available from stock

Detailed information about delivery time online.

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Online ordering

Including delivery times, prices, online tools

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Ordering note

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

Discount scaling

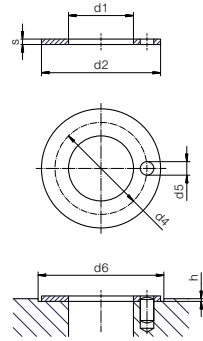
1 – 9	50 – 99	500 – 999
10 – 24	100 – 199	1,000 – 2,499
25 – 49	200 – 499	2,500 – 4,999

No minimum order value.

No low-quantity surcharges.

Free shipping within Germany for orders above €150.

Thrust washer (form T)



i Dimensions according to ISO 3547-1 and special dimensions

i Order example: **GTM-0408-005** – no minimum order quantity.
G iglidur® material T Thrust washer M Metric 04 Inner Ø d1 08 Outer Ø d2 005 Thickness s

d1	d2	d4	d5	h	d6	s	Part No.
+0.25	-0.25	-0.12 +0.12	+0.375 +0.125	+0.2/-0.2	+0.12	-0.05	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
4	8	⁴⁾	⁴⁾	0.2	8	0.5	GTM-0408-005
4	9	⁴⁾	⁴⁾	0.3	9	0.6	GTM-0409-006
4	9	⁴⁾	⁴⁾	0.3	9	1.6	GTM-0409-016
4	10	⁴⁾	⁴⁾	0.2	10	0.5	GTM-0410-005
4	11	⁴⁾	⁴⁾	0.2	11	0.5	GTM-0411-005
5	9.5	⁴⁾	⁴⁾	0.3	9.5	0.6	GTM-0509-006
6	12	⁴⁾	⁴⁾	1	12	1.5	GTM-0612-015
6	15	⁴⁾	⁴⁾	1	15	1.5	GTM-0615-015
6	20	13	1.5	1	20	1.5	GTM-0620-015
6.2	11	⁴⁾	⁴⁾	0.7	11	1	GTM-0611-010
7	12	⁴⁾	⁴⁾	0.2	12	0.5	GTM-0712-005
7	13	⁴⁾	⁴⁾	0.2	13	0.5	GTM-0713-005
8	15	⁴⁾	⁴⁾	0.2	15	0.5	GTM-0815-005
8	15	⁴⁾	⁴⁾	1	15	1.5	GTM-0815-015
8	18	⁴⁾	⁴⁾	0.7	18	1	GTM-0818-010
8	18	13	1.5	1	18	1.5	GTM-0818-015
8	18	⁴⁾	⁴⁾	1.5	18	2	GTM-0818-020
9	13	⁴⁾	⁴⁾	0.7	13	1	GTM-0913-010
9	18	13.5	1.5	1	18	1.5	GTM-0918-015
10	17.8	⁴⁾	⁴⁾	0.2	17.8	0.5	GTM-1018-005
10	18	⁴⁾	⁴⁾	0.7	18	1	GTM-1018-010
10	18	⁴⁾	⁴⁾	1	18	1.5	GTM-1018-015
10	18	⁴⁾	⁴⁾	1.5	18	2	GTM-1018-020
10	20	⁴⁾	⁴⁾	0.7	20	1.5	GTM-1020-015
11	15	⁴⁾	⁴⁾	0.7	15	1	GTM-1115-010
11	27	⁴⁾	⁴⁾	0.2	27	0.5	GTM-1127-005
12	24	18	1.5	1	24	1.5	GTM-1224-015
12	30	⁴⁾	⁴⁾	1	30	1.5	GTM-1230-015

⁴⁾ Design without fixing hole

Product range

d1	d2	d4	d5	h	d6	s	Part No.
+0.25	-0.25	-0.12 +0.12	+0.375 +0.125	+0.2/-0.2	+0.12	-0.05	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
14	20	⁴⁾	⁴⁾	1	20	1.5	GTM-1420-015
14	26	20	2	1	26	1.5	GTM-1426-015
15	19	⁴⁾	⁴⁾	0.5	19	0.8	GTM-1519-008
15	22	⁴⁾	⁴⁾	0.5	22	0.8	GTM-1522-008
15	24	19.5	1.5	1	24	1.5	GTM-1524-015
15	24	⁴⁾	⁴⁾	2	24	2.75	GTM-1524-0275
16	28	⁴⁾	⁴⁾	0.7	28	1	GTM-1628-010
16	30	22	2	1	30	1.5	GTM-1630-015
18	32	25	2	1	32	1.5	GTM-1832-015
20	36	28	3	1	36	1.5	GTM-2036-015
22	30	⁴⁾	⁴⁾	1	30	1.5	GTM-2230-015
22	38	30	3	1	38	1.5	GTM-2238-015
24	42	33	3	1	42	1.5	GTM-2442-015
26	44	35	3	1	44	1.5	GTM-2644-015
28	48	38	4	1	48	1.5	GTM-2848-015
28.5	35.8	⁴⁾	⁴⁾	0.2	35.8	0.5	GTM-2835-005
32	45.8	⁴⁾	⁴⁾	0.7	45.8	1	GTM-3246-010
32	54	43	4	1	54	1.5	GTM-3254-015
38	62	50	4	1	62	1.5	GTM-3862-015
42	66	54	4	1	66	1.5	GTM-4266-015
48	60	⁴⁾	⁴⁾	1.5	74	2	GTM-4860-020
48	74	61	4	1.5	74	2	GTM-4874-020
52	78	65	4	1.5	78	2	GTM-5278-020
52.5	69	⁴⁾	⁴⁾	1.5	69	2	GTM-52569-020
62	78	⁴⁾	⁴⁾	1.5	78	2	GTM-6278-020
62	90	⁴⁾	⁴⁾	0.7	90	1	GTM-6290-010
62	90	76	4	1.5	90	2	GTM-6290-020
68	81	⁴⁾	⁴⁾	1.5	81	2	GTM-6881-020
78	114	⁴⁾	⁴⁾	1	114	1.5	GTM-78114-015
80.5	114	⁴⁾	⁴⁾	1	114	1.5	GTM-80114-015

⁴⁾ Design without fixing hole

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