

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® W3000
- 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



Ø 1,5 - 193,0mm

Also available as:



Bar stock with plate
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Bar stock
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Microlags liner
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Two hole large bearings
Page 603



Moulded parts
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igidur® spherical balls
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The classic all-rounder Excellent price-performance ratio

igidur® 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	-	■	■	■	■	+
Wear resistance at +80°C	-	■	■	■	■	+
Wear resistance at +150°C	-	■	■	■	■	+
Low coefficient of friction	-	■	■	■	■	+
Low moisture absorption	-	■	■	■	■	+
Wear resistance under water	-	■	■	■	■	+
High media resistance	-	■	■	■	■	+
Resistant to edge pressures	-	■	■	■	■	+
Suitable for shock and impact loads	-	■	■	■	■	+
Resistant to dirt	-	■	■	■	■	+

Online product finder
www.igus-aseam.com/igidur-finder

Online service life calculation
www.igus-aseam.com/igidur-expert

Technical data

General properties	Testing method
Density	g/cm ³ 1.46
Colour	mett grey
Max. moisture absorption at +23°C and 50% r.h.	% weight 0.7 DIN 53485
Max. moisture absorption	% weight 4.0
Coefficient of friction, dynamic, against steel (pv value), max. (dry)	μ 0.03 - 0.15 MPa · m/s 0.42
Mechanical properties	
Flexural modulus	MPa 7.600 DIN 53457
Flexural strength at +20°C	MPa 210 DIN 53462
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 ⁻³ 9 DIN 53752
Electrical properties	
Specific contact resistance	Ωcm > 10 ¹³ DIN IEC 93
Surface resistance	Ω > 10 ¹¹ DIN 53462

Table 01: Material properties

igidur® G is the decathlete among igidur® 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 igidur® G plain bearings is approximately 0.7% weight. The saturation limit in water is 4.0% weight. This must be taken into account for those types of applications.

Vacuum

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

Radiation resistance

Plain bearings made from igidur® G are resistant up to a radiation intensity of 3 - 10 Gy.

Resistance to weathering

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

Mechanical properties

With increasing temperatures, the compressive strength of igidur® 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 55MPa. 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 igidur® 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

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Technical data

Permissible surface speeds

igidur® 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 +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 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 igidur® 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 igidur® 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
igidur® G plain bearings are standard bearings for shafts with h tolerance (recommended minimum i9). 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 E10
Diluted acids	+ 0 up to -
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
short-term	m/s	2.0	1.4
Table 03: Maximum surface speeds			

	Dry	Greases	Oil	Water
Coefficient of friction μ	0.05 - 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
ϕ d1 [mm]	H7 [mm]	E10 [mm]	i9 [mm]
0-3	+0.000 -0.010	-0.014	+0.064 -0.026
>3-6	+0.000 -0.012	-0.020	+0.068 -0.030
>6-10	+0.000 -0.015	-0.025	+0.063 -0.036
>10-16	+0.000 -0.018	-0.032	+0.102 -0.043
>16-30	+0.000 -0.021	-0.040	+0.124 -0.052
>30-50	+0.000 -0.025	-0.050	+0.150 -0.062
>50-80	+0.000 -0.030	-0.060	+0.180 -0.074
>80-120	+0.000 -0.035	-0.072	+0.212 -0.087
>120-180	+0.000 -0.040	-0.085	+0.245 -0.100

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

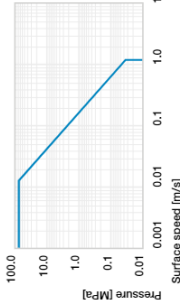


Diagram 01: Permissible pv values for igidur® G plain bearings with a wall thickness of 1mm, dry operation against a steel shaft, at +20°C, mounted in a steel housing

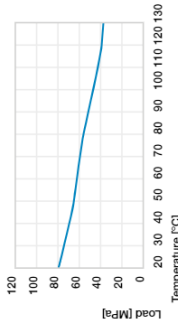


Diagram 02: Maximum recommended surface pressure as a function of temperature (60MPa at +20°C)

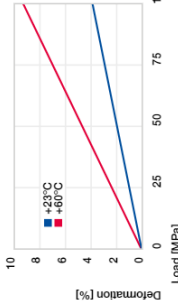


Diagram 03: Deformation under pressure and temperature

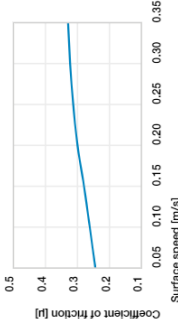


Diagram 04: Coefficient of friction as a function of the surface speed, $p = 0.75\text{MPa}$

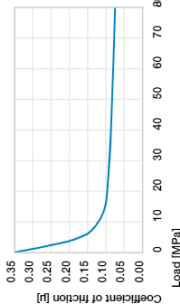


Diagram 05: Coefficient of friction as a function of the load, $v = 0.01\text{m/s}$



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

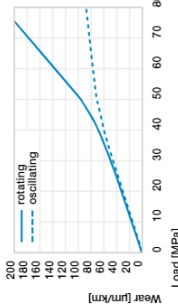
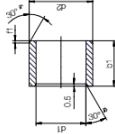


Diagram 07: Wear for oscillating and rotating applications with shaft material C63 hardened and ground steel, as a function of the load

Bearing technology | Plain bearing | iglidur® G

Sleeve bearing (form S)



* Thickness < 0.6mm; Chamfer = 20°

Chamfer in relation to d1

d1 [mm]	Ø1-6	Ø6-12	Ø12-30	Ø > 30
f1 [mm]	0.3	0.5	0.8	1.2

i Dimensions according to ISO 3547-1 and special dimensions

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

G iglidur® material **S** Sleeve bearing **M** Metric **Ø1** Inner **Ø2** Outer **Ø2** Total length **l1**

d1 [mm]	d2 [mm]	h13 [mm]	Part No.	d1 [mm]	d2 [mm]	h13 [mm]	Part No.		
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	GSM-0250-05	6.0	+0.020	8.0	GSM-0608-10		
3.0	+0.064	4.5	GSM-0304-03	6.0	+0.068	8.0	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	GSM-0708-10		
4.0	5.5	4.0	GSM-0405-04	7.0	+0.049	8.0	GSM-0708-19		
4.0	+0.020	5.5	GSM-0405-06	7.0	9.0	8.0	GSM-0708-08		
4.0	+0.068	7.0	5.5	GSM-0407-05	7.0	+0.025	9.0	GSM-0709-09	
4.5	6.0	8.0	GSM-0406-08	7.0	+0.083	9.0	10.0	GSM-0708-10	
5.0	+0.010	6.0	4.6	GSM-0506-046	7.0	8.0	12.0	GSM-0708-12	
5.0	+0.040	6.0	5.0	GSM-0506-05	8.0	9.0	5.0	GSM-0809-05	
5.0	7.0	7.0	GSM-0506-07	8.0	+0.013	9.0	6.0	GSM-0809-06	
5.0	+0.020	7.0	5.0	GSM-0507-05	8.0	+0.049	9.0	6.0	GSM-0809-08
5.0	+0.068	7.0	8.0	GSM-0507-08	8.0	9.0	12.0	GSM-0809-12	
5.0	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	+0.010	7.0	12.0	GSM-0607-12	8.0	10.0	6.0	GSM-0810-08	
6.0	+0.040	7.0	17.0	GSM-0607-17	8.0	10.0	10.0	GSM-0810-10	
6.0	7.0	19.0	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	+0.020	8.0	3.0	GSM-0608-03	8.0	10.0	16.0	GSM-0810-16	
6.0	+0.068	8.0	4.0	GSM-0608-04	8.0	10.0	18.0	GSM-0810-18	
6.0	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		

* After press-ff. Testing methods, page 57

Product range

d1 [mm]	d1 Tolerance ^a [mm]	d2 [mm]	h13 [mm]	Part No.	d1 [mm]	d1 Tolerance ^a [mm]	d2 [mm]	h13 [mm]	Part No.
8.0	-0.040	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	10.0	GSM-1315-075
9.0	-0.049	10.0	16.0	GSM-0910-16	13.0		15.0	15.0	GSM-1315-15
9.0	-0.025	11.0	6.0	GSM-0911-06	13.0		15.0	20.0	GSM-1315-20
9.0	-0.083	11.0	20.0	GSM-0911-20	13.0		15.0	25.0	GSM-1315-25
10.0		11.0	6.0	GSM-1011-06	14.0	+0.032	16.0	3.0	GSM-1416-03
10.0		11.0	7.0	GSM-1011-07	14.0	+0.102	16.0	5.0	GSM-1416-06
10.0	-0.013	11.0	10.0	GSM-1011-10	14.0		16.0	8.0	GSM-1416-08
10.0	-0.049	11.0	20.0	GSM-1011-20	14.0		16.0	10.0	GSM-1416-10
10.0		11.0	25.0	GSM-1011-25	14.0		16.0	12.0	GSM-1416-12
10.0		11.0	30.0	GSM-1011-30	14.0		16.0	15.0	GSM-1416-15
10.0		12.0	4.0	GSM-1012-04	14.0		16.0	20.0	GSM-1416-20
10.0		12.0	4.5	GSM-1012-045	14.0		16.0	25.0	GSM-1416-25
10.0		12.0	5.0	GSM-1012-05	14.0		16.0	30.0	GSM-1416-30
10.0		12.0	6.0	GSM-1012-06	14.0	+0.016	16.0	10.0	GSM-1516-10
10.0		12.0	7.0	GSM-1012-07	15.0	+0.069	17.0	4.0	GSM-1517-04
10.0	-0.025	12.0	8.0	GSM-1012-08	15.0		17.0	10.0	GSM-1517-10
10.0	+0.083	12.0	10.0	GSM-1012-10	15.0		17.0	12.0	GSM-1517-12
10.0		12.0	12.0	GSM-1012-12	15.0		17.0	15.0	GSM-1517-15
10.0		12.0	14.0	GSM-1012-14	15.0		17.0	20.0	GSM-1517-20
10.0		12.0	15.0	GSM-1012-15	15.0		17.0	25.0	GSM-1517-25
10.0		12.0	17.0	GSM-1012-17	16.0		18.0	5.5	GSM-1618-055
10.0		12.0	20.0	GSM-1012-20	16.0		18.0	8.0	GSM-1618-08
10.0		13.0	13.5	GSM-1013-13	16.0	-0.032	18.0	10.0	GSM-1618-10
10.0	+0.025	14.0	10.0	GSM-1014-10	16.0	+0.102	18.0	12.0	GSM-1618-12
10.0	+0.115	14.0	20.0	GSM-1014-20	16.0		18.0	13.5	GSM-1618-13.5
10.0	+0.040	16.0	10.0	GSM-1016-10	16.0		18.0	15.0	GSM-1618-15
12.0	+0.130	13.0	4.7	GSM-1213-047	16.0		18.0	20.0	GSM-1618-20
12.0	+0.016	13.0	10.0	GSM-1213-10	16.0		18.0	30.0	GSM-1618-30
12.0	+0.059	13.0	12.0	GSM-1213-12	16.0		18.0	36.5	GSM-1618-36.5
12.0		13.0	15.0	GSM-1213-15	16.0		18.0	50.0	GSM-1618-50
12.0		14.0	4.0	GSM-1214-04	17.0		19.0	15.0	GSM-1719-15
12.0		14.0	5.0	GSM-1214-05	17.0	+0.016	19.0	15.0	GSM-1819-15
12.0		14.0	6.0	GSM-1214-06	17.0	+0.069			
12.0		14.0	8.0	GSM-1214-08	18.0		20.0	6.0	GSM-1820-06
12.0		14.0	10.0	GSM-1214-10	18.0		20.0	10.0	GSM-1820-10
12.0		14.0	12.0	GSM-1214-12	18.0		20.0	12.0	GSM-1820-12
12.0	+0.032	14.0	12.0	GSM-1214-12	18.0		20.0	15.0	GSM-1820-15
12.0	+0.102	14.0	14.0	GSM-1214-14	18.0		20.0	20.0	GSM-1820-20
12.0		14.0	15.0	GSM-1214-15	18.0	+0.032	20.0	25.0	GSM-1820-25
12.0		14.0	20.0	GSM-1214-20	18.0	+0.102	20.0	34.0	GSM-1820-34
12.0		14.0	25.0	GSM-1214-25	18.0		20.0	36.0	GSM-1820-36
12.0		15.0	6.0	GSM-1215-06	18.0		20.0	45.0	GSM-1820-45
12.0		15.0	22.0	GSM-1215-22	18.0		22.0	30.0	GSM-1822-30
12.0	+0.060	16.0	10.0	GSM-1216-10	18.0				
12.0	+0.160	16.0	20.0	GSM-1216-20	18.0				

* After press-ff. Testing methods, page 57

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d1	d1 Tolerance ^{a)}	d2	h13	h13	Part No.	d1	d1 Tolerance ^{a)}	d2	h13	h13	Part No.
[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	
19.0	+0.040	22.0	6.0	GSM-1922-06	25.0	25.0	24.0	GSM-2526-24			
19.0	+0.124	22.0	25.0	GSM-1922-26	25.0	28.0	25.0	GSM-2526-25			
19.0		22.0	35.0	GSM-1922-35	25.0	28.0	30.0	GSM-2526-30			
20.0	+0.020	21.0	20.0	GSM-2021-20	26.0	28.0	35.0	GSM-2526-35			
20.0	+0.072	22.0	30.0	GSM-2022-03	26.0	30.0	50.0	GSM-2526-50			
20.0		22.0	8.0	GSM-2022-08	27.0	+0.040	30.0	16.0	GSM-2630-16		
20.0		22.0	10.5	GSM-2022-105	27.0	+0.124	30.0	5.0	GSM-2730-05		
20.0		22.0	15.0	GSM-2022-15	28.0		32.0	10.5	GSM-2832-105		
20.0		22.0	20.0	GSM-2022-20	28.0		32.0	12.0	GSM-2832-12		
20.0		22.0	22.0	GSM-2022-22	28.0		32.0	15.0	GSM-2832-15		
20.0		22.0	25.0	GSM-2022-25	28.0		32.0	20.0	GSM-2832-20		
20.0		22.0	30.0	GSM-2022-30	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-2833-06		
20.0		23.0	20.0	GSM-2023-20	29.0	+0.124	30.0	5.0	GSM-3031-05		
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	+0.040	34.0	24.0	GSM-3034-24		
22.0		24.0	15.0	GSM-2224-15	30.0	+0.124	34.0	25.0	GSM-3034-25		
22.0		24.0	17.0	GSM-2224-17	30.0		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	45.0	GSM-2224-45	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	+0.060	36.0	30.0	GSM-3236-30		
22.0		25.0	30.0	GSM-2225-30	32.0	+0.150	36.0	40.0	GSM-3236-40		
22.0		25.0	35.5	GSM-2225-35.5	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		
24.0	+0.072	27.0	6.0	GSM-2427-06	35.0		39.0	25.0	GSM-3539-25		
24.0		27.0	15.0	GSM-2427-15	35.0		39.0	30.0	GSM-3539-30		
24.0	+0.040	27.0	20.0	GSM-2427-20	35.0	+0.060	39.0	40.0	GSM-3539-40		
24.0	+0.124	27.0	24.0	GSM-2427-24	35.0	+0.150	39.0	50.0	GSM-3539-50		
24.0		27.0	25.0	GSM-2427-25	36.0		41.0	50.0	GSM-3554-50		
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		

^{a)} After press-fit. Testing methods, page 57

Product range

d1	d1 Tolerance ^{a)}	d2	h13	h13	Part No.	d1	d1 Tolerance ^{a)}	d2	h13	h13	Part No.
[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	
40.0		44.0	40.0	GSM-4044-40	40.0		44.0	40.0	GSM-4044-50		
40.0		44.0	50.0	GSM-4044-50	40.0		44.0	52.5	GSM-4044-525		
40.0		46.0	40.0	GSM-4246-40	42.0		46.0	40.0	GSM-4246-40		
40.0		46.0	50.0	GSM-4448-50	44.0		48.0	20.0	GSM-4448-20		
45.0		50.0	10.0	GSM-4550-10	45.0		50.0	20.0	GSM-4550-20		
45.0		50.0	20.0	GSM-4550-20	45.0		50.0	22.0	GSM-4550-22		
45.0		50.0	23.5	GSM-4550-235	45.0		50.0	30.0	GSM-4550-30		
45.0	+0.050	50.0	30.0	GSM-4550-30	45.0	+0.150	50.0	35.0	GSM-4550-35		
45.0		50.0	40.0	GSM-4550-40	45.0		50.0	40.0	GSM-4550-40		
45.0		50.0	50.0	GSM-4550-50	45.0		50.0	50.0	GSM-4550-50		
50.0		55.0	20.0	GSM-5055-20	50.0		55.0	20.0	GSM-5055-20		
50.0		55.0	25.0	GSM-5055-25	50.0		55.0	30.0	GSM-5055-30		
50.0		55.0	30.0	GSM-5055-30	50.0		55.0	40.0	GSM-5055-40		
50.0		55.0	40.0	GSM-5055-40	50.0		55.0	50.0	GSM-5055-50		
50.0		55.0	50.0	GSM-5055-50	50.0		55.0	60.0	GSM-5055-60		
50.0		57.0	20.0	GSM-5257-20	52.0		57.0	20.0	GSM-5257-20		
50.0		57.0	25.0	GSM-5257-25	52.0		57.0	30.0	GSM-5257-30		
50.0		60.0	20.0	GSM-5560-20	55.0		60.0	20.0	GSM-5560-20		
50.0		60.0	40.0	GSM-5560-40	55.0		60.0	40.0	GSM-5560-40		
55.0		60.0	50.0	GSM-5560-50	55.0		60.0	50.0	GSM-5560-50		
55.0	+0.060	60.0	60.0	GSM-5560-60	55.0		60.0	60.0	GSM-5560-60		
60.0	+0.150	65.0	30.0	GSM-6065-30	60.0		65.0	30.0	GSM-6065-30		
60.0		65.0	40.0	GSM-6065-40	60.0		65.0	40.0	GSM-6065-40		
60.0		65.0	50.0	GSM-6065-50	60.0		65.0	60.0	GSM-6065-60		
60.0		65.0	70.0	GSM-6065-70	60.0		65.0	70.0	GSM-6065-70		

^{a)} After press-fit. Testing methods, page 57

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Product range

d1	d1 Tolerance ^a [mm]	d3 d13 [®] [mm]	b2 h13 [mm]	Part No.
16.0	±0.04	24.0	9.0	1.00 GFM-1616-B-09
16.0	±0.04	24.0	12.0	1.00 GFM-1618-12
16.0	±0.04	24.0	16.0	1.00 GFM-1618-16
16.0	±0.04	24.0	17.0	1.00 GFM-1618-17
16.0	±0.04	24.0	21.0	1.00 GFM-1618-21
17.0	±0.04	25.0	9.0	1.00 GFM-1719-09
17.0	±0.04	25.0	16.0	1.00 GFM-1719-16
17.0	±0.04	25.0	25.0	1.00 GFM-1719-25
18.0	+0.032	26.0	4.0	1.00 GFM-1820-04
18.0	+0.102	26.0	6.0	1.00 GFM-1820-06
18.0	±0.04	26.0	9.0	1.00 GFM-1820-09
18.0	±0.04	26.0	11.0	1.00 GFM-1820-11
18.0	±0.04	26.0	12.0	1.00 GFM-1820-12
18.0	±0.04	26.0	17.0	1.00 GFM-1820-17
18.0	±0.04	26.0	22.0	1.00 GFM-1820-22
18.0	±0.04	26.0	30.0	1.00 GFM-1820-30
18.0	±0.04	26.0	32.0	1.00 GFM-1820-32
18.0	±0.04	26.0	35.0	1.00 GFM-1822-35
20.0	+0.020	21.0	26.0	0.50 GFM-2021-036
20.0	+0.072	21.0	25.0	0.50 GFM-2021-15
20.0	±0.04	21.0	25.0	0.50 GFM-2021-20
20.0	±0.04	23.0	3.0	1.50 GFM-2023-07
20.0	±0.04	23.0	7.0	1.50 GFM-2023-07
20.0	±0.04	23.0	11.5	1.50 GFM-2023-11
20.0	±0.04	23.0	15.0	1.50 GFM-2023-15
20.0	±0.04	23.0	16.5	1.50 GFM-2023-16
20.0	±0.04	23.0	29.0	1.50 GFM-2023-29
20.0	±0.04	23.0	30.0	1.50 GFM-2023-30
20.0	+0.040	23.0	30.0	1.50 GFM-2023-21
20.0	+0.124	23.0	30.0	1.50 GFM-2023-21
22.0	±0.04	24.0	30.0	1.50 GFM-2224-30
22.0	±0.04	25.0	10.5	1.50 GFM-2247-10
25.0	+0.020	26.0	30.0	25.0 0.50 GFM-2526-25
25.0	+0.072	26.0	30.0	25.0 0.50 GFM-2526-25
25.0	±0.04	27.0	32.0	48.0 1.00 GFM-2527-48
25.0	±0.04	28.0	11.5	1.50 GFM-2529-11
25.0	±0.04	28.0	16.5	1.50 GFM-2529-16
25.0	+0.124	28.0	35.0	21.5 1.50 GFM-2529-21
26.0	±0.04	30.0	37.0	12.0 2.00 GFM-2630-12
27.0	±0.04	30.0	36.0	20.0 1.50 GFM-2730-20
27.0	±0.04	30.0	36.0	10.0 1.00 GFM-2630-10

^a After press-fit. Testing methods, page 57

d1	d1 Tolerance ^a [mm]	d2	d3 d13 [®] [mm]	b2 h13 [mm]	Part No.
60.0	±0.04	65.0	80.0	62.0	2.00 GFM-60650-62
65.0	±0.04	70.0	78.0	50.0	2.00 GFM-6570-50
70.0	+0.060	75.0	83.0	50.0	2.00 GFM-7075-50
75.0	+0.180	80.0	88.0	50.0	2.00 GFM-7580-50
80.0	±0.04	85.0	93.0	50.0	2.50 GFM-8085-50
85.0	±0.04	90.0	98.0	100.0	2.50 GFM-8085-100
90.0	+0.072	95.0	103.0	100.0	2.50 GFM-9095-100
95.0	+0.212	100.0	108.0	100.0	2.50 GFM-95100-100
100.0	±0.04	105.0	113.0	42.5	2.50 GFM-100105-425

^a After press-fit. Testing methods, page 57

d1	d1 Tolerance ^a [mm]	d2	d3 d13 [®] [mm]	b1 h13 [mm]	b2 h13 [mm]	Part No.
110.0	+0.072	115.0	123.0	100.0	2.50 GFM-110105-100	
120.0	+0.212	125.0	133.0	80.0	2.50 GFM-120125-80	
125.0	±0.04	130.0	138.0	100.0	2.50 GFM-125130-100	
130.0	+0.065	135.0	143.0	100.0	2.50 GFM-130135-100	
140.0	+0.245	145.0	153.0	100.0	2.50 GFM-140145-100	
150.0	±0.04	155.0	163.0	40.0	2.50 GFM-150155-40	
150.0	±0.04	155.0	163.0	100.0	2.50 GFM-150155-100	
150.0	+0.100	155.0	163.0	24.0	65.0 5.00 65	
150.0	+0.285	155.0	163.0	24.0	65.0 5.00 65	



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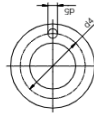
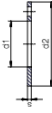
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Thrust washer (form T)



i Dimensions according to ISO 3547-1 and special dimensions

i Order example: **GTM-0408-005** – no minimum order quantity.

i **G** iglidur® material **T** Thrust washer **M** Metric **O4** Inner Ø **d1** **08** Outer Ø **d2** **005** Thickness **s**

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

⁴⁾ Design without fixing hole

Product range

d1	d2	d4	d5	d6	h	s	Part No.
+0.25	-0.25	-0.12 +0.12	+0.375 +0.125	+0.12	+0.2/-0.2	-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	29	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
43	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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25-49	200-499	2,500-4,999

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