

The classic all-rounder

Excellent price-performance ratio

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

Bearing technology | Plain bearings | iglidur® G



Also available as:
Ø 1,5 – 195,0mm

Bar stock, round bar: Page 629



Bar stock, plate: Page 651



Tribo-tape liner: Page 657



Piston rings: Page 662



Modified special parts: Page 602



Spherical balls: Page 783



3D CAD, finder and service life calculation ... www.igus.eu/G



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.

- 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 +90°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.eu/iglidur-finder

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

Technical data

General properties

Density	g/cm ³	1.46	Testing method
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 table

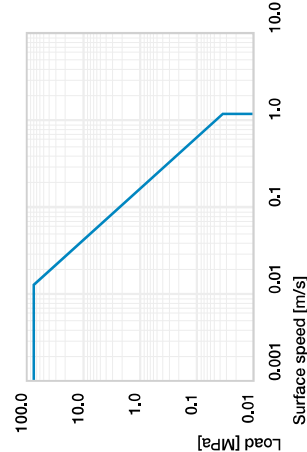


Diagram 01: Permissible pv values for iglidur® G plain bearings with a wall thickness of 1mm, dry operation against a steel shaft, at +20°C, mounted in a steel housing

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.



-40°C up to +130°C



80MPa



Radiation resistance
Plain bearings made from iglidur® G are resistant up to a radiation intensity of 3 · 10⁵Gy.

UV resistance

iglidur® G plain bearings are resistant to permanent UV radiation.

Chemicals	Resistance
Alcohols	+ up to 0
Hydrocarbons	+
Greases, oils without additives	+
Fuels	+
Diluted acids	0 up to -
Strong acids	-
Diluted alkalines	+
Strong alkalines	0
+ resistant	0 conditionally resistant
All information given at room temperature (+20°C)	- not resistant

Table 02: Chemical resistance

Chemical table, page 1542

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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.

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.

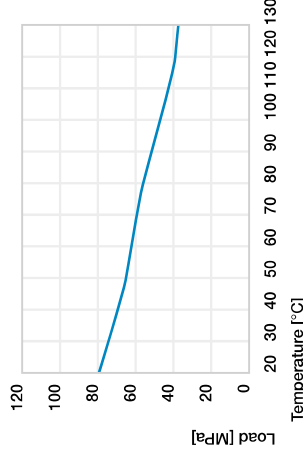


Diagram 02: Maximum recommended surface pressure as a function of temperature (80MPa at +20°C)

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 50

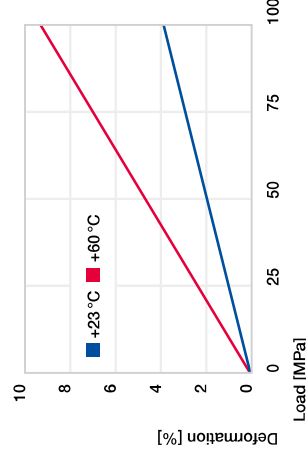


Diagram 03: Deformation under pressure and temperature

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

	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

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.

Applicational 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

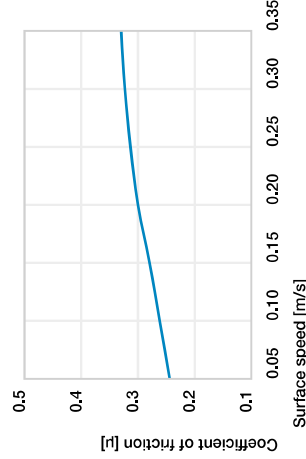


Diagram 04: Coefficient of friction as a function of the surface speed, p = 0.75MPa

Technical data

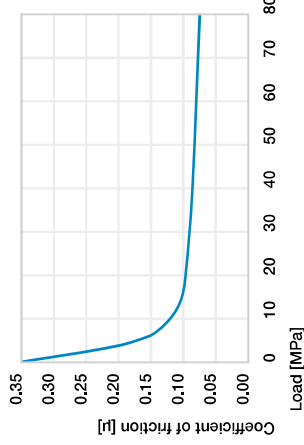


Diagram 05: Coefficient of friction as a function of the load, v = 0.01m/s

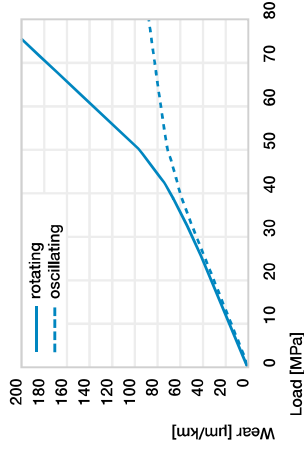


Diagram 07: Wear for oscillating and rotating applications with shaft material Cf53 hardened and ground steel, as a function of the load

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 Ra = 0.8μm 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

Dry	Greases	Oil	Water	
Coeff. of friction [μ]	0.08	0.15	0.09	0.04

Table 04: Coefficient of friction against steel (Ra = 1μm, 50 HRC)

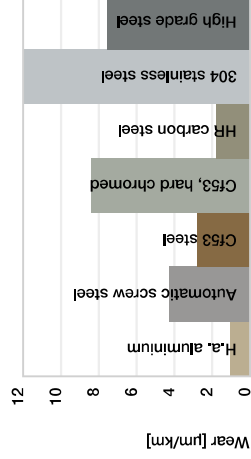


Diagram 06: Wear, rotating with different shaft materials, pressure, p = 1MPa, v = 0.3m/s

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).

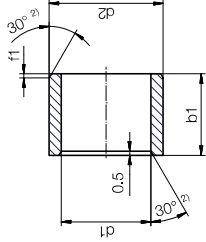
Testing methods, page 57

Ø d1 [mm]	Housing H7 [mm]	Plain bearing E10 [mm]	Shaft 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

Bearing technology | Plain bearings | 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
f [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 **01** Inner Ø **03** Outer Ø **02** Total length **b1**

Product range

d1	d1 Tolerance ³⁾	d2	b1	h13	Part No.
[mm]		[mm]	[mm]	[mm]	
8.0		10.0	18.0	GSM-0810-18	
8.0	+0.025	10.0	20.0	GSM-0810-20	
8.0	+0.083	10.0	22.0	GSM-0810-22	
8.0		10.0	25.0	GSM-0810-25	
8.0	+0.040	12.0	9.0	GSM-0812-09	
8.0	+0.130	10.0	12.0	GSM-0910-12	
9.0	+0.049	10.0	16.0	GSM-0910-16	
9.0	+0.025	11.0	6.0	GSM-0911-06	
9.0	+0.083	11.0	20.0	GSM-0911-20	
10.0		11.0	6.0	GSM-1011-06	
10.0		11.0	7.0	GSM-1011-07	
10.0	+0.013	11.0	10.0	GSM-1011-10	
10.0	+0.049	11.0	20.0	GSM-1011-20	
10.0		11.0	25.0	GSM-1011-25	
10.0		11.0	30.0	GSM-1011-30	
10.0		12.0	4.0	GSM-1012-04	
10.0		12.0	4.5	GSM-1012-045	
10.0		12.0	5.0	GSM-1012-05	
10.0		12.0	6.0	GSM-1012-06	
10.0		12.0	7.0	GSM-1012-07	
10.0		12.0	8.0	GSM-1012-08	
10.0	+0.025	12.0	9.0	GSM-1012-09	
10.0	+0.083	12.0	10.0	GSM-1012-10	
10.0		12.0	12.0	GSM-1012-12	
10.0		12.0	14.0	GSM-1012-14	
10.0		12.0	15.0	GSM-1012-15	
10.0		12.0	17.0	GSM-1012-17	
10.0		12.0	20.0	GSM-1012-20	
10.0		13.0	13.5	GSM-1013-13	
10.0	+0.025	14.0	10.0	GSM-1014-10	
10.0	+0.115	14.0	20.0	GSM-1014-20	
10.0	+0.040	16.0	10.0	GSM-1016-10	
10.0	+0.130	13.0	4.7	GSM-1213-047	
12.0	+0.016	13.0	10.0	GSM-1213-10	
12.0	+0.059	13.0	12.0	GSM-1213-12	
12.0		13.0	15.0	GSM-1213-15	
12.0		14.0	4.0	GSM-1214-04	
12.0		14.0	5.0	GSM-1214-05	
12.0		14.0	6.0	GSM-1214-06	
12.0		14.0	8.0	GSM-1214-08	
12.0	+0.032	14.0	10.0	GSM-1214-10	
12.0	+0.102	14.0	12.0	GSM-1214-12	
12.0		14.0	14.0	GSM-1214-14	
12.0		14.0	15.0	GSM-1214-15	
12.0		14.0	20.0	GSM-1214-20	
12.0		14.0	25.0	GSM-1214-25	
12.0		14.0	30.0	GSM-1214-30	
12.0		18.0	38.5	GSM-1618-38.5	
16.0		18.0	50.0	GSM-1618-50	
17.0		19.0	15.0	GSM-1719-15	
18.0	+0.016	19.0	15.0	GSM-1819-15	
18.0	+0.059	20.0	6.0	GSM-1820-06	
18.0		20.0	10.0	GSM-1820-10	
18.0		20.0	12.0	GSM-1820-12	
18.0	+0.032	20.0	15.0	GSM-1820-15	
18.0	+0.102	20.0	20.0	GSM-1820-20	
18.0		20.0	25.0	GSM-1820-25	
18.0		20.0	34.0	GSM-1820-34	

³⁾ After press-fit. Testing methods page 57

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d1	d1 Tolerance ³⁾	d2	b1 h13	Part No.
[mm]	[mm]	[mm]	[mm]	
18.0	+0.032	20.0	38.0	GSM-1820-38
18.0	+0.102	20.0	45.0	GSM-1820-45
18.0		22.0	30.0	GSM-1822-30
19.0	+0.040	22.0	6.0	GSM-1922-06
19.0	+0.124	22.0	28.0	GSM-1922-28
19.0		22.0	35.0	GSM-1922-35
20.0	+0.020	21.0	20.0	GSM-2021-20
20.0	+0.072	22.0	3.0	GSM-2022-03
20.0		22.0	8.0	GSM-2022-08
20.0		22.0	10.5	GSM-2022-105
20.0		22.0	15.0	GSM-2022-15
20.0		22.0	20.0	GSM-2022-20
20.0		22.0	22.0	GSM-2022-22
20.0		22.0	28.0	GSM-2022-28
20.0		22.0	30.0	GSM-2022-30
20.0		22.0	47.0	GSM-2022-47
20.0		23.0	4.5	GSM-2023-045
20.0		23.0	10.0	GSM-2023-10
20.0		23.0	15.0	GSM-2023-15
20.0		23.0	20.0	GSM-2023-20
20.0		23.0	24.0	GSM-2023-24
20.0	+0.040	23.0	25.0	GSM-2023-25
20.0	+0.124	23.0	30.0	GSM-2023-30
20.0		23.0	35.0	GSM-2023-35
22.0		24.0	8.0	GSM-2224-08
22.0		24.0	10.0	GSM-2224-10
22.0		24.0	12.0	GSM-2224-12
22.0		24.0	15.0	GSM-2224-15
22.0		24.0	17.0	GSM-2224-17
22.0		24.0	20.0	GSM-2224-20
22.0		24.0	30.0	GSM-2224-30
22.0		24.0	48.0	GSM-2224-48
22.0		25.0	15.0	GSM-2225-15
22.0		25.0	20.0	GSM-2225-20
22.0		25.0	25.0	GSM-2225-25
22.0		25.0	30.0	GSM-2225-30
22.0		25.0	38.5	GSM-2225-38.5
24.0	+0.020	25.0	25.0	GSM-2425-25
24.0	+0.072	27.0	6.0	GSM-2427-06
24.0		27.0	15.0	GSM-2427-15
24.0	+0.040	27.0	20.0	GSM-2427-20
24.0	+0.124	27.0	24.0	GSM-2427-24
24.0		27.0	25.0	GSM-2427-25
24.0		27.0	30.0	GSM-2427-30
25.0	+0.020	26.0	23.0	GSM-2526-23
25.0	+0.072	26.0	25.0	GSM-2526-25

³⁾ After press-fit. Testing methods page 57

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Product range

d1	d1 Tolerance ³⁾	d2	b1 h13	Part No.
[mm]	[mm]	[mm]	[mm]	
40.0		44.0	16.5	GSM-4044-16
40.0	+0.100	44.0	20.0	GSM-4044-20
40.0	+0.250	44.0	30.0	GSM-4044-30
40.0		44.0	40.0	GSM-4044-40
40.0		44.0	50.0	GSM-4044-50
40.0		44.0	52.5	GSM-4044-525
42.0		46.0	40.0	GSM-4246-40
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	+0.050	50.0	22.0	GSM-4550-22
45.0	+0.150	50.0	23.5	GSM-4550-235
45.0		50.0	30.0	GSM-4550-30
45.0		50.0	38.0	GSM-4550-38
45.0		50.0	40.0	GSM-4550-40
45.0		50.0	50.0	GSM-4550-50
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	40.0	GSM-5055-40
50.0		55.0	50.0	GSM-5055-50
50.0		55.0	60.0	GSM-5055-60
52.0		57.0	20.0	GSM-5257-20
55.0		60.0	20.0	GSM-5560-20
55.0		60.0	40.0	GSM-5560-40
55.0		60.0	50.0	GSM-5560-50
55.0	+0.060	60.0	60.0	GSM-5560-60
60.0	+0.180	65.0	30.0	GSM-6065-30
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

³⁾ After press-fit. Testing methods page 57



Available from stock

Detailed information about delivery time online.

www.igus.eu/24



Online ordering

Including delivery times, prices, online tools

www.igus.eu/G



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

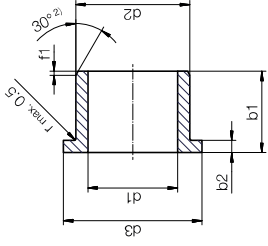
above €150.

Lubrication-free made easy ... from stock ... no minimum order quantity 89



Bearing technology | Plain bearings | iglidur® G

Flange bearing (form F)



²⁾ Thickness < 0.6mm: Chamfer = 20°

Chamfer in relation to d1

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

i Dimensions according to ISO 3547-1 and special dimensions

i Order example: **GFM-0304-02** – no minimum order quantity.

G iglidur® material **F** Flange bearing **M** Metric **03** Inner Ø **04** Outer Ø **02** Total length **b1**

d1 [mm]	d2 [mm]	d3 [mm]	b1 [mm]	b2 [mm]	Part No.	
3.0	4.5	7.5	2.0	0.50	GFM-0304-02	
3.0	4.5	7.5	2.7	0.75	GFM-0304-0275	
3.0	4.5	7.5	3.0	0.75	GFM-0304-03	
3.0	4.5	7.5	5.0	0.75	GFM-0304-05	
3.0	4.5	7.0	5.0	0.75	GFM-030407-05	
4.0	+0.010	5.0	9.5	4.0	0.50	GFM-04050-04
4.0	+0.040	5.0	9.5	6.0	0.50	GFM-04050-06
4.0		5.5	9.5	2.5	0.75	GFM-0405-0255
4.0	+0.020	5.5	9.5	3.0	0.75	GFM-0405-03
4.0	+0.068	5.5	9.5	4.0	0.75	GFM-0405-04
4.0		5.5	9.5	6.0	0.75	GFM-0405-06
4.0		5.5	8.0	1.0	1.00	GFM-040508-10
5.0		6.0	10.0	3.5	0.50	GFM-0506-035
5.0		6.0	10.0	4.0	0.50	GFM-0506-04
5.0	+0.010	6.0	10.0	5.0	0.50	GFM-0506-05
5.0	+0.040	6.0	10.0	6.0	0.50	GFM-0506-06
5.0		6.0	10.0	15.3	0.50	GFM-0506-15
5.0		7.0	11.0	3.5	1.00	GFM-0507-03
5.0		7.0	11.0	4.0	1.00	GFM-050715-04
5.0		7.0	11.0	4.0	1.00	GFM-0507-04
5.0	+0.020	7.0	9.5	5.0	1.00	GFM-050709-05
5.0	+0.068	7.0	11.0	5.0	1.00	GFM-0507-05
5.0		7.0	11.0	7.0	1.00	GFM-0507-07
5.0		7.0	11.0	11.0	1.00	GFM-0507-11
5.0		7.0	11.0	14.5	1.00	GFM-0507-145
5.0		7.0	11.0	30.0	1.00	GFM-0507-30
6.0	+0.010	7.0	11.0	2.4	0.50	GFM-0607-024
6.0	+0.040	7.0	11.0	4.5	0.50	GFM-0607-045

³⁾ After press-fit. Testing methods page 57

90 3D CAD, finder and service life calculation ... www.igus.eu/G



Product range

d1 [mm]	d2 [mm]	d3 [mm]	b1 [mm]	b2 [mm]	Part No.	
8.0	+0.025	10.0	18.0	3.0	1.00	GFM-081018-03
8.0	+0.083	10.0	15.0	3.0	1.00	GFM-0810-03
8.0		10.0	15.0	4.0	1.00	GFM-0810-04
8.0	+0.040	10.0	14.0	5.0	1.00	GFM-081014-05
8.0	+0.098	10.0	15.0	5.5	1.00	GFM-0810-05
8.0		10.0	14.0	6.0	1.00	GFM-081014-06
8.0	+0.025	10.0	15.0	6.5	1.00	GFM-0810-065
8.0	+0.083	10.0	15.0	7.5	1.00	GFM-0810-07
8.0		10.0	13.0	8.0	1.00	GFM-081013-08
8.0		10.0	14.0	8.0	1.00	GFM-081014-08
8.0		10.0	15.0	9.5	1.00	GFM-0810-09
8.0	+0.040	10.0	14.0	10.0	1.00	GFM-081014-10
8.0	+0.098	10.0	15.0	10.0	1.00	GFM-0810-10
8.0		10.0	14.0	11.0	1.00	GFM-0810-11
8.0		10.0	16.0	11.5	1.50	GFM-081016-11
8.0		10.0	12.0	12.5	1.00	GFM-081012-125
8.0	+0.025	10.0	16.0	15.0	1.50	GFM-081016-15
8.0	+0.083	10.0	15.0	15.0	1.00	GFM-0810-15
8.0		10.0	17.0	15.0	1.00	GFM-081017-15
8.0		10.0	15.0	25.0	1.00	GFM-0810-25
8.0		10.0	15.0	30.0	1.00	GFM-0810-30
8.0	+0.040	12.0	16.0	6.0	2.00	GFM-0812-06
8.0	+0.130	12.0	21.0	8.0	2.00	GFM-081221-08
9.0	+0.013	10.0	15.0	6.5	0.50	GFM-0910-065
9.0	+0.049	10.0	15.0	17.5	0.50	GFM-0910-17
10.0	+0.013	11.0	20.0	3.5	0.50	GFM-1011-03
10.0	+0.046	11.0	15.0	4.4	0.50	GFM-1011-044
10.0	+0.049	11.0	15.0	10.0	0.50	GFM-1011-10
10.0		12.0	18.0	3.5	1.00	GFM-1012-035
10.0		12.0	18.0	4.0	1.00	GFM-1012-04
10.0		12.0	18.0	5.0	1.00	GFM-1012-05
10.0		12.0	18.0	6.0	1.00	GFM-1012-06
10.0		12.0	16.0	6.0	1.00	GFM-101216-06
10.0		12.0	18.0	7.0	1.00	GFM-1012-07
10.0	+0.025	12.0	16.0	9.0	1.00	GFM-101216-09
10.0	+0.083	12.0	18.0	9.0	1.00	GFM-1012-09
10.0		12.0	18.0	10.0	1.00	GFM-1012-10
10.0		12.0	18.0	12.0	1.00	GFM-1012-12
10.0		12.0	15.0	12.0	1.00	GFM-101215-12
10.0		12.0	18.0	15.0	1.00	GFM-1012-15
10.0		12.0	16.0	15.0	1.00	GFM-101216-15
10.0		12.0	18.0	17.0	1.00	GFM-1012-17
11.0	+0.016	12.0	16.0	6.0	0.50	GFM-1112-06
12.0	+0.059	13.0	17.0	3.0	0.50	GFM-1213-03
12.0		13.0	15.0	12.0	0.50	GFM-121315-12

³⁾ After press-fit. Testing methods page 57



Lubrication-free made easy ... from stock ... no minimum order quantity

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d1	d1 Tolerance ^{a)} [mm]	d2	d3	b1	b2	Part No.
		[mm]	d13	h13	-0,14	
16,0		18,0	24,0	9,0	1,00	GFM-1618-09
16,0		18,0	24,0	12,0	1,00	GFM-1618-12
16,0		18,0	24,0	16,0	1,00	GFM-1618-16
16,0		18,0	24,0	17,0	1,00	GFM-1618-17
16,0		18,0	24,0	21,0	1,00	GFM-1618-21
17,0		19,0	25,0	9,0	1,00	GFM-1719-09
17,0		19,0	25,0	16,0	1,00	GFM-1719-16
17,0		19,0	25,0	25,0	1,00	GFM-1719-25
18,0		20,0	26,0	4,0	1,00	GFM-1820-04
18,0	+0,032	20,0	26,0	6,0	1,00	GFM-1820-06
18,0	+0,102	20,0	22,0	6,0	1,00	GFM-1820-06
18,0		20,0	26,0	9,0	1,00	GFM-1820-09
18,0		20,0	26,0	11,0	1,00	GFM-1820-11
18,0		20,0	26,0	12,0	1,00	GFM-1820-12
18,0		20,0	26,0	17,0	1,00	GFM-1820-17
18,0		20,0	26,0	22,0	1,00	GFM-1820-22
18,0		20,0	26,0	30,0	1,00	GFM-1820-30
18,0		20,0	26,0	32,0	1,00	GFM-1820-32
18,0		22,0	26,0	28,0	2,00	GFM-1822-28
20,0	+0,020	21,0	26,0	3,5	0,50	GFM-2021-035
20,0		21,0	25,0	15,0	0,50	GFM-2021-15
20,0	+0,072	21,0	25,0	20,0	0,50	GFM-2021-20
20,0		23,0	30,0	7,0	1,50	GFM-2023-07
20,0		23,0	26,0	7,0	1,50	GFM-2023-07
20,0		23,0	30,0	11,5	1,50	GFM-2023-11
20,0		23,0	28,0	15,0	1,50	GFM-2023-15
20,0		23,0	30,0	16,5	1,50	GFM-2023-16
20,0		23,0	29,0	20,0	1,50	GFM-2023-20
20,0	+0,040	23,0	30,0	21,5	1,50	GFM-2023-21
20,0		23,0	26,0	21,5	1,50	GFM-2023-21
22,0	+0,124	24,0	30,0	25,0	1,00	GFM-2224-25
22,0		25,0	29,0	4,5	1,50	GFM-2225-045
22,0		25,0	30,0	21,5	1,50	GFM-2225-215
22,0		25,0	30,0	25,0	1,50	GFM-2225-25
22,0		25,0	35,0	31,5	1,50	GFM-2225-315
24,0		27,0	32,0	7,0	1,50	GFM-2427-07
24,0		27,0	32,0	10,5	1,50	GFM-2427-10
25,0	+0,020	26,0	30,0	25,0	0,50	GFM-2526-25
25,0	+0,072	27,0	32,0	7,0	1,00	GFM-2527-07
25,0		27,0	32,0	48,0	1,00	GFM-2527-48
25,0		28,0	30,0	10,0	1,50	GFM-2528-10
25,0	+0,040	28,0	35,0	11,5	1,50	GFM-2528-11
25,0	+0,124	28,0	35,0	16,5	1,50	GFM-2528-16
25,0		28,0	35,0	21,5	1,50	GFM-2528-21
26,0		30,0	37,0	12,0	2,00	GFM-2630-12
27,0		30,0	38,0	20,0	1,50	GFM-2730-20
28,0		30,0	36,0	10,0	1,00	GFM-2830-10

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

Product range

d1	d1 Tolerance ^{a)} [mm]	d2	d3	b1	b2	Part No.
		[mm]	d13	h13	-0,14	
65,0		70,0	78,0	50,0	2,00	GFM-6570-50
70,0		75,0	83,0	50,0	2,00	GFM-7075-50
70,0	+0,060	75,0	83,0	85,5	2,00	GFM-7075-855
75,0	+0,180	80,0	88,0	50,0	2,00	GFM-7580-50
80,0		85,0	93,0	50,0	2,50	GFM-8085-50
80,0		85,0	93,0	100,0	2,50	GFM-8085-100
85,0		90,0	98,0	100,0	2,50	GFM-8590-100
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		105,0	113,0	42,5	2,50	GFM-100105-425
100,0		105,0	113,0	100,0	2,50	GFM-100105-100

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

d1	d1 Tolerance ^{a)} [mm]	d2	d3	b1	b2	Part No.
		[mm]	d13	h13	-0,14	
110,0		115,0	123,0	100,0	2,50	GFM-110115-100
120,0	+0,072	125,0	133,0	80,0	2,50	GFM-120125-80
120,0	+0,212	125,0	133,0	100,0	2,50	GFM-120125-100
125,0		130,0	138,0	100,0	2,50	GFM-125130-100
130,0	+0,085	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		155,0	163,0	40,0	2,50	GFM-150155-40
150,0		155,0	163,0	100,0	2,50	GFM-150155-100
195,0	+0,100	205,0	240,0	65,0	5,00	GFM-195205-65
	+0,285					



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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

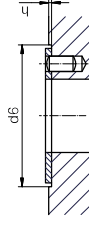
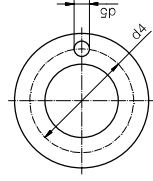
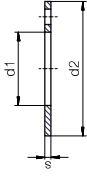
No minimum order value.

No low-quantity surcharges.

Free shipping within Germany for orders above €150.

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Thrust washer (form T)



i Dimensions according to ISO 3547-1 and special dimensions

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

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

d1	d2	d4	d5	h	d6	s	Part No.
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
+0.25	-0.25	-0.12	+0.375	+0.2/-0.2	+0.12	-0.05	
		+0.12	+0.125				
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.
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
+0.25	-0.25	-0.12	+0.375	+0.2/-0.2	+0.12	-0.05	
		+0.12	+0.125				
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	61	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)	0.5	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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including delivery times, prices, online tools

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Ordering note

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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.

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