iglidur® G – The General Purpose Bearing:

most popular iglidur® material worldwide

► from page 51

iglidur® J – The Fast and Slow Motion Specialist:

used in long-life applications, also with soft shafts

► from page 79

iglidur® M250 – Thick and Tough:

excellent vibration dampening

► from page 97

iglidur® W300 – The Marathon Runner:

long service life, also for soft shafts

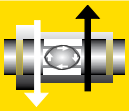
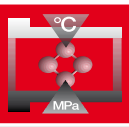
► from page 121

iglidur® X – The High-Tech Problem Solver:

chemical- and temperature-resistant up to +250 °C

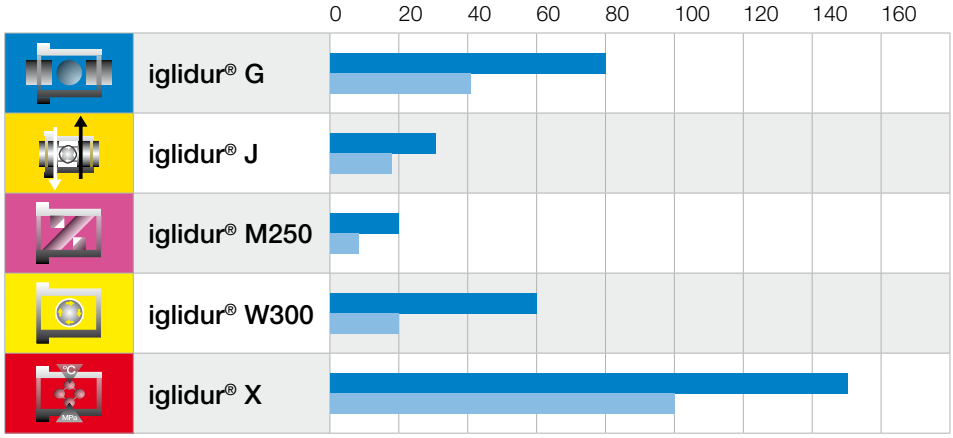
► from page 143

iglidur® Standards | Selection According to Main Criteria

Standard Plain bearings, available from stock					
	iglidur® G	iglidur® J	iglidur® M250	iglidur® W300	iglidur® X
Long life dry running	●	●	●	●	●
For high loads	●				●
For high temperatures					●
Low friction/high speed		●		●	
Dirt resistant	●		●	●	
Chemicals resistant					●
Low water absorption		●			●
Food-suitable					
Vibration-dampening			●		
Egde pressure		●	●	●	
For under water use					●
Cost-effective	●	●	●	●	
from page	51	79	97	121	143

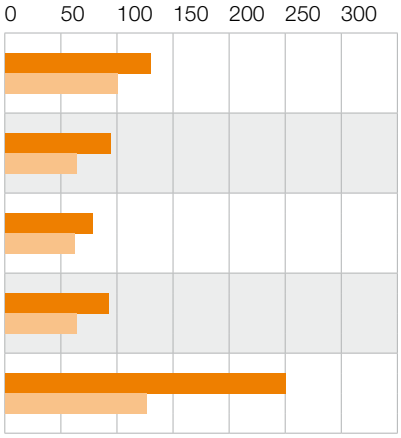
iglidur® Standards | Selection According to Main Criteria

Load [MPa]



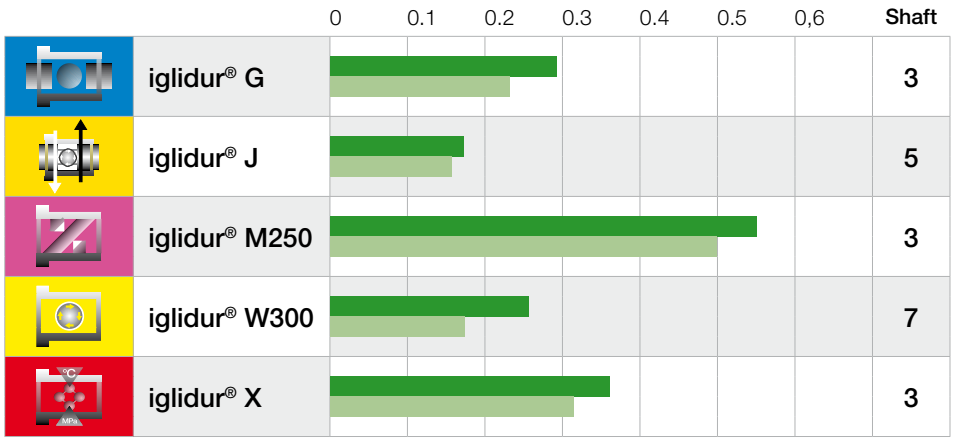
Maximum permissible radial load of iglidur® bearings at
- +20 °C
- +120 °C

Temperature [°C]



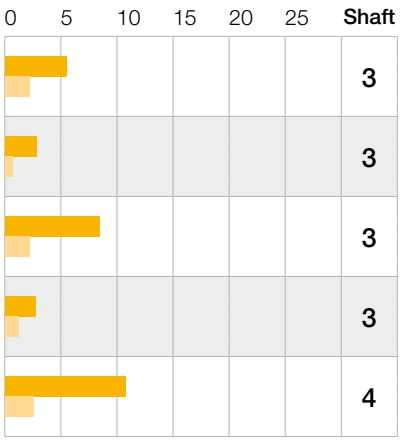
Important temperatur limits of iglidur® bearings
- Maximum permissible application temperature, continuous
- Temperature where bearings need to be secured against radial or axial movement in the housing

Coefficient of Friction [µ]



Coefficients of friction of iglidur® bearings sliding against steel, p = 1 MPa, v = 0.3 m/s
- Average coefficient of all the seven sliding combinations tested
- Coefficient of friction of best combination

Wear [µm/km]



Wear of iglidur® bearings sliding against steel, p = 1 MPa
- Average wear of all the seven sliding combination tested
- Wear of best combination

Shaft material:

1 = Cf53
2 = hard chromed
3 = Aluminum, hc
4 = Automatic screw steel
5 = HR carbon steel
6 = 304 SS
7 = High grade steel

iglidur®-Standards | Material Data

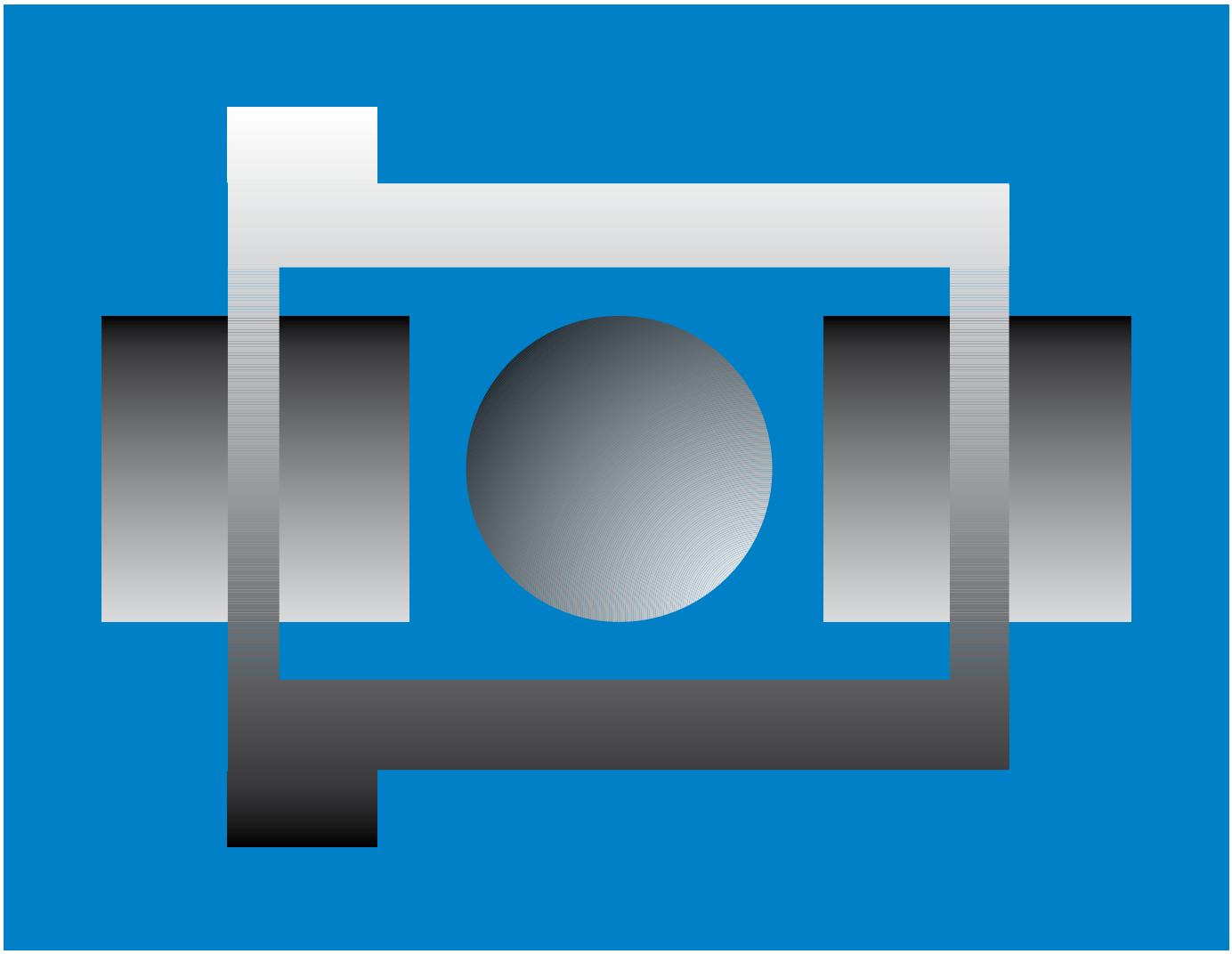
Material data

General properties	Unit	iglidur® G	iglidur® J	iglidur® M250	iglidur® W300	iglidur® X
Density	g/cm³	1.46	1.49	1.14	1.24	1.44
Colour		dark grey	yellow	anthracite	yellow	black
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.7	0.3	1.4	1.3	0.1
Max. moisture absorption	% weight	4.0	1.3	7.6	6.5	0.5
Coefficient of sliding friction. dynamic against steel	μ	0.08–0.15	0.06–0.18	0.18–0.40	0.08–0.23	0.09–0.27
pv value. max. (dry)	MPa · m/s	0.42	0.34	0.12	0.23	1.32
Mechanical properties						
Modulus of elasticity	MPa	7,800	2,400	2,700	3,500	8,100
Tensile strength at +20 °C	MPa	210	73	112	125	170
Compressive strength	MPa	78	60	52	61	100
Max. recommended surface pressure (+20 °C)	MPa	80	35	20	60	150
Shore D hardness		81	74	79	77	85
Physical and thermal properties						
Max. long term application temperature	°C	+130	+90	+80	+90	+250
Max. short term application temperature	°C	+220	+120	+170	+180	+315
Min. application temperature	°C	–40	–50	–40	–40	–100
Thermal conductivity	W/m · K	0.24	0.25	0.24	0.24	0.6
Coefficient of thermal expansion (at +23 °C)	$K^{-1} \cdot 10^{-5}$	9	10	10	9	5
Electrical properties						
Specific volume resistance	Ωcm	> 10^{13}	> 10^{13}	> 10^{13}	> 10^{13}	< 10^{5}
Surface resistance	Ω	> 10^{11}	> 10^{12}	> 10^{11}	> 10^{12}	< 10^{3}

Material resistance (at +20 °C)

Chemical resistance	iglidur® G	iglidur® J	iglidur® M250	iglidur® W300	iglidur® X
Alcohol	+ to 0	+	+ to 0	+ to 0	+
Hydrocarbons	+	+	+	+	+
Greases, oils without additives	+	+	+	+	+
Fuels	+	+	+	+	+
Diluted acids	0 to –	0 to –	0 to –	0 to –	+
Strong acids	–	–	–	–	+
Diluted alkalines	+	+	+	+	+
Strong alkalines	0	+ to 0	0	0	+
Radiation resistance [Gy] to	3 · 10^{2}	3 · 10^{2}	1 · 10^{4}	3 · 10^{2}	1 · 10^{5}

+ resistant 0 conditionally resistant – not resistant



iglidur® G – The General Purpose Bearing: most popular iglidur® material worldwide

- Over 650 sizes available ex stock
- Maintenance-free, dry running
- High wear resistance
- Resistance to dust and dirt
- Cost-effective

iglidur® G | The General Purpose Bearing

Most popular iglidur® material worldwide. iglidur® G bearings cover an extremely wide range of different requirements – they are truly “all round”. Typical applications cover medium to high loads. medium sliding speeds and medium temperatures.

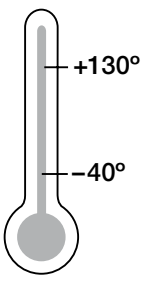
When to use it?

- Economical all-round performance bearing
- Maintenance-free, dry running
- Vibration dampening
- High wear resistance
- Resistance to dust and dirt
- Over 900 sizes available from stock
- Cost-effective
- For above average loads
- For low to average running speeds
- When the bearing needs to run on different shaft materials
- For oscillating and rotational movements

When not to use it?

- When mechanical reaming of the wall surface is necessary
  ▶ iglidur® M250, page 97
- When the highest wear resistance is required
  ▶ iglidur® W300, page 121
- If temperatures are constantly greater than +130 °C
  ▶ iglidur® H, page 315
  iglidur® X, page 143
  iglidur® H370, page 337
- For underwater use
  ▶ iglidur® H370, page 337

Temperature



Product range

3 types
> 650 dimensions
Ø 1–150 mm

iglidur® G | Application Examples

Typical sectors of industry and application areas

● Agricultural machines ● Construction machinery ● Machine building ● Sports and leisure ● Automotive etc.

Improve technology and reduce costs – 310 exciting examples for iglidur® plain bearings online

▶ www.igus.eu/iglidur-applications

▶ www.igus.eu/hay-spreader

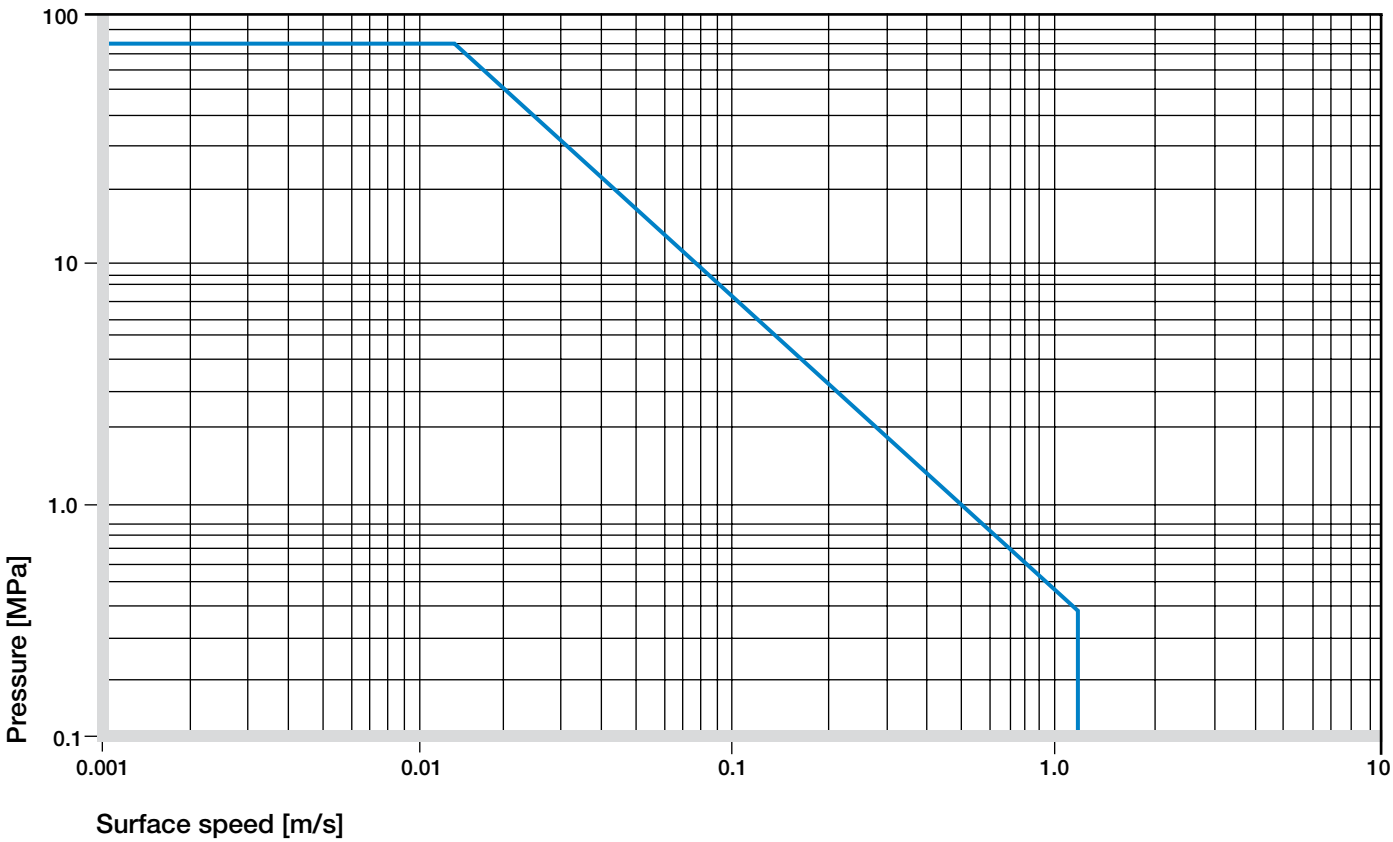
▶ www.igus.eu/vehicle-construction

▶ www.igus.eu/swing-arm

▶ www.igus.eu/veneer-assembling

Material data			
General properties	**Unit**	**iglidur® G**	**Testing method**
Density	**g/cm³**	1.46	
Colour		dark grey	
Max. moisture absorption at +23 °C/50 % r.h.	**% weight**	0.7	DIN 53495
Max. moisture absorption	**% weight**	4.0	
Coefficient of sliding friction, dynamic against steel	**µ**	0.08–0.15	
pv value, max. (dry)	**MPa · m/s**	0.42	
Mechanical properties			
Modulus of elasticity	**MPa**	7,800	DIN 53457
Tensile 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. long term application temperature	**°C**	+130	
Max. short term application temperature	**°C**	+220	
Min. application temperature	**°C**	–40	
Thermal conductivity	**W/m · K**	0.24	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	**$K^{-1} \cdot 10^{-5}$**	9	DIN 53752
Electrical properties			
Specific volume resistance	**Ωcm**	$> 10^{13}$	DIN IEC 93
Surface resistance	**Ω**	$> 10^{11}$	DIN 53482

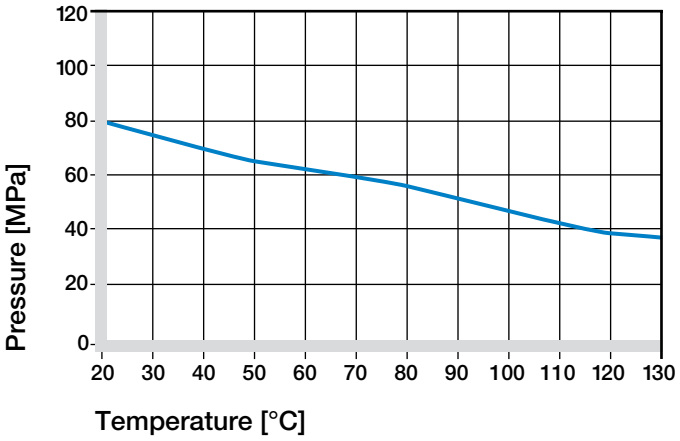
Table 01: Material data



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

Mechanical Properties

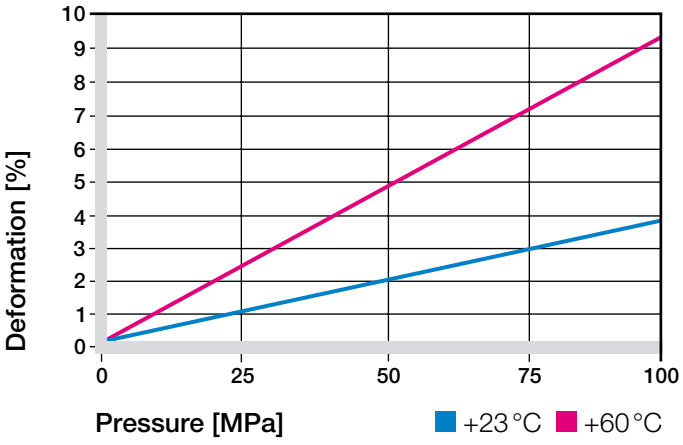
The recommended maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this. With increasing temperatures, the compressive strength of iglidur® G plain bearings decreases. The Graph 02 shows this inverse relationship. However, at the longterm maximum temperature of +130 °C the permissible surface pressure is almost 40 MPa.



Graph 02: Recommended maximum surface pressure as a function of temperature (80 MPa at +20 °C)

Graph 03 shows the elastic deformation of iglidur® G during radial loading. At the recommended maximum surface pressure of 80 MPa the deformation is less than 4 %. The plastic deformation is minimal up to a pressure of approximately 100 MPa. However, it is also dependant on the cycle time.

▶ Surface Pressure, **page 33**



Graph 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 02 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 temperature level is rarely reached. due to varying application conditions.

▶ Surface Speed, **page 35**

m/s	Rotating	Oscillating	Linear
Continuous	1	0.7	4
Short term	2	1.4	5

Table 02: Maximum running speed

Temperatures

Application temperatures greatly affect the properties of plain bearings.

The short term maximum temperature is +220 °C, this allows the use of iglidur® G plain bearings in heat treating applications in which the bearings are not subjected to additional loading.

The temperature in an application also has an effect on the bearing wear. With increasing temperatures, the wear increases and this effect is significant when temperatures rise over +120 °C.

▶ Application Temperatures, **page 36**

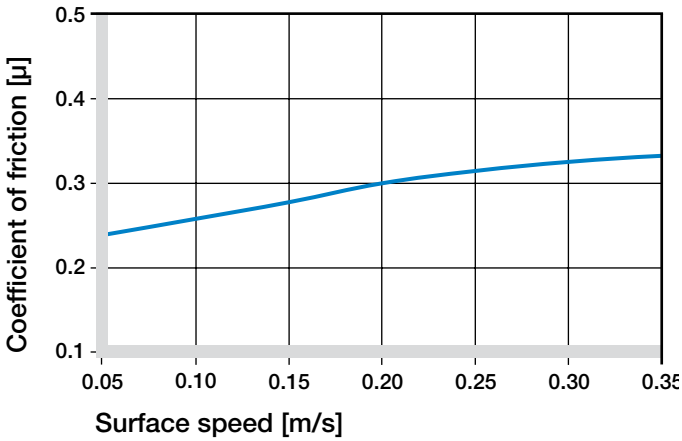
iglidur® G	Application temperature
Minimum	−40 °C
Max. long term	+130 °C
Max. short term	+220 °C
Add. securing is required from	+100 °C

Table 03: Temperature limits

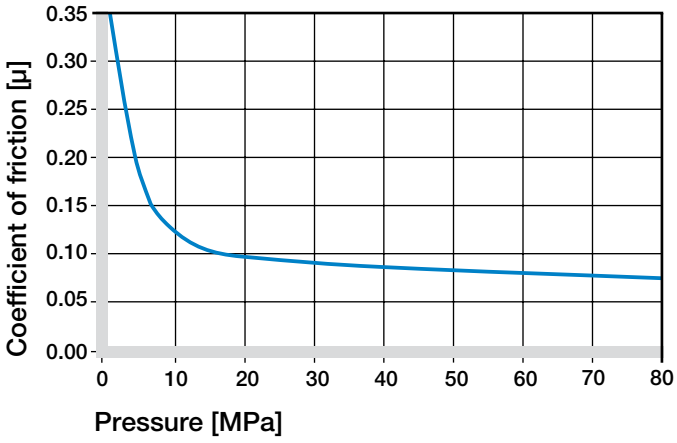
Friction and Wear

Similar to wear resistance, the coefficient of friction μ also changes with the load. The coefficient of friction decreases with increasing pressures, whereas an increase in surface speed causes an increase of the coefficient of friction. This relationship explains the excellent results of iglidur® G plain bearings for high loads and low speeds (Graphs 04 und 05).

▶ Coefficients of Friction and Surfaces, **page 38**
▶ Wear Resistance, **page 39**



Graph 04: Coefficient of friction as a function of the running speed, p = 0.75 MPa



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

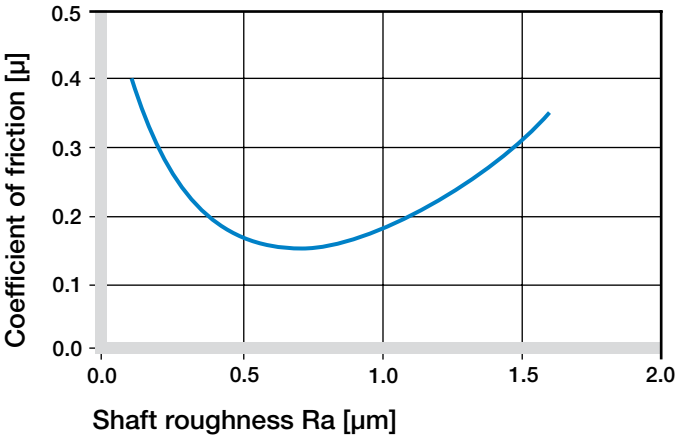
Shaft Materials

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 roughness Ra = 0.8 μm is recommended (Graph 06).

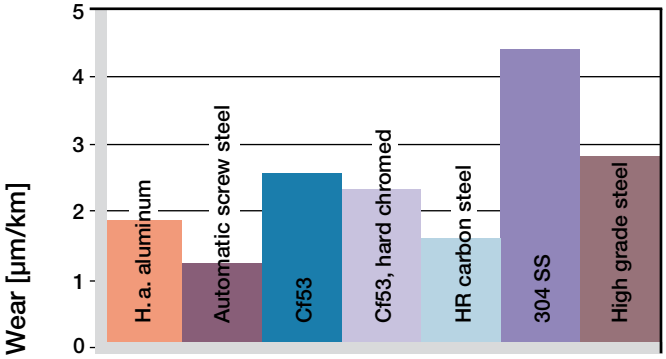
Graphs 07 to 09 show results of testing different shaft materials with plain bearings made of iglidur® G. In Graph 07 it shows that iglidur® G can be combined with various shaft materials. The simple shaft materials of free-cutting steel and HR carbon steel have proven best at low loads. This helps to design cost-effective systems, since both iglidur® G and the shaft are economically priced. 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 increase the wear of the overall system. If the loads exceed 2 MPa it is important to recognize that the wear rate (the gradient of the curves) clearly decreases with the hard shaft materials. The comparison of rotational movements to oscillating movements shows that iglidur® G provides advantages in oscillating movements. The wear of the bearing is smaller for equivalent conditions. The higher the load, the greater the difference.

If the shaft material you plan on using is not shown in these test results, please contact us.

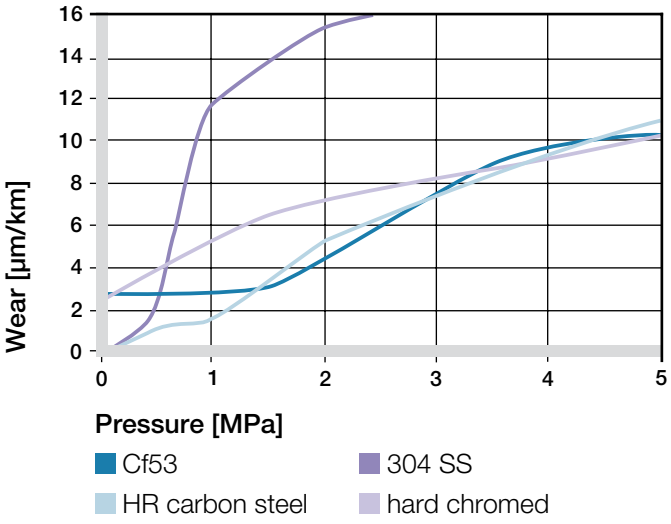
▶ Shaft Materials, **page 41**



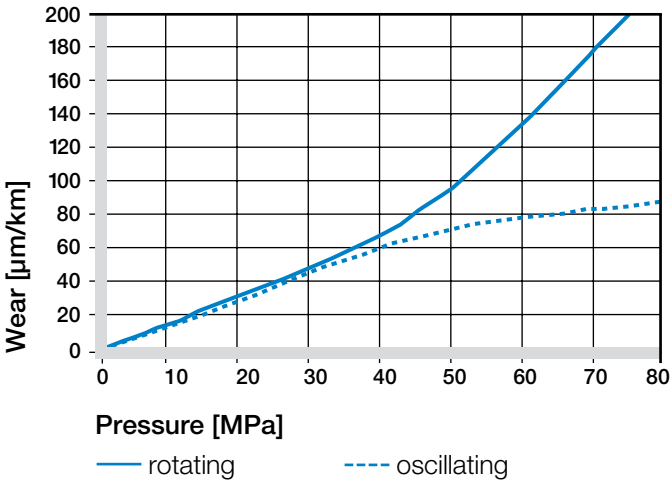
Graph 06: Coefficient of friction as function of the shaft surface (Cf53 hardened and ground steel)



Graph 07: Wear, rotating with different shaft materials, pressure p = 0.75 MPa, v = 0.5 m/s



Graph 08: Wear with different shaft materials in rotational operation, as a function of the pressure



Graph 09: Wear for oscillating and rotating applications with shaft material Cf53 hardened and ground steel, as a function of the pressure

iglidur® G	Dry	Greases	Oil	Water
C. o. f. µ	0.08–0.15	0.09	0.04	0.04

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

Additional Properties

Chemical Resistance

iglidur® G plain bearings have strong resistance to chemicals. They are also resistant to most lubricants.
iglidur® G plain bearings are not attacked by most weak organic or inorganic acids.

▶ Chemical Table, **page 974**

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

+ resistant 0 conditionally resistant – not resistant
All data given at room temperature [+20 °C]
Table 05: Chemical resistance

Radiation Resistance

Plain bearings made from iglidur® G are resistant to radiation up to an intensity of $3 \cdot 10^2$ Gy.

UV Resistance

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

Vacuum

iglidur® G plain bearings outgas in a vacuum. Use in a vacuum environment is only possible with dehumidified bearings.

Electrical Properties

iglidur® G plain bearings are electrically insulating.

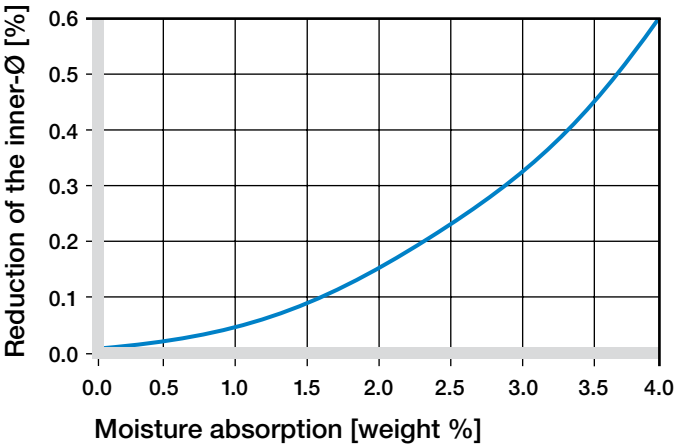
Volume resistance	$> 10^{13}$ Ωcm
Surface resistance	$> 10^{11}$ Ω

Moisture Absorption

The moisture absorption of iglidur® G plain bearings is approximately 1 % in standard atmosphere. The saturation limit submerged in water is 4 %. This must be taken into account for these types of applications.

Maximum moisture absorption	
At +23 °C/50 % r.h.	0.7 % weight
Max. moisture absorption	4.0 % weight

Table 06: Moisture absorption



Graph 10: Effect of moisture absorption on plain bearings

Installation Tolerances

iglidur® G plain bearings are standard bearings for shafts with h-tolerance (recommended minimum h9). The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, the inner diameter adjusts to meet the specified tolerances.

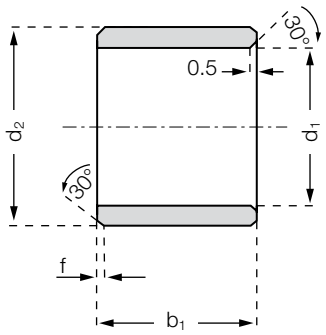
▶ Testing Methods, **page 45**

Diameter d1 [mm]	Shaft h9 [mm]	iglidur® G E10 [mm]	Housing H7 [mm]
up to 3	0–0.025	+0.014 +0.054	0 +0.010
> 3 to 6	0–0.030	+0.020 +0.068	0 +0.012
> 6 to 10	0–0.036	+0.025 +0.083	0 +0.015
> 10 to 18	0–0.043	+0.032 +0.102	0 +0.018
> 18 to 30	0–0.052	+0.040 +0.124	0 +0.021
> 30 to 50	0–0.062	+0.050 +0.150	0 +0.025
> 50 to 80	0–0.074	+0.060 +0.180	0 +0.030
> 80 to 120	0–0.087	+0.072 +0.212	0 +0.035
> 120 to 180	0–0.100	+0.085 +0.245	0 +0.040

Table 07: Important tolerances for plain bearings according to ISO 3547-1 after pressfit

iglidur® G | Product Range

Sleeve Bearing



Order key

GSM-0103-02

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form S)
- Material iglidur® G

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
GSM-0103-02	1.5	+0.014 +0.054	3.0	2.0
GSM-0203-03	2.0	+0.014 +0.054	3.5	3.0
GSM-02504-05	2.5	+0.014 +0.054	4.5	5.0
GSM-0304-03	3.0	+0.014 +0.054	4.5	3.0
GSM-0304-05	3.0	+0.014 +0.054	4.5	5.0
GSM-0304-06	3.0	+0.014 +0.054	4.5	6.0
GSM-0405-04	4.0	+0.020 +0.068	5.5	4.0
GSM-0405-06	4.0	+0.020 +0.068	5.5	6.0
GSM-0406-08	4.5	+0.020 +0.068	6.0	8.0
GSM-0407-05	4.0	+0.020 +0.068	7.0	5.5
GSM-0506-05	5.0	+0.010 +0.040	6.0	5.0
GSM-0506-07	5.0	+0.010 +0.040	6.0	7.0
GSM-0507-05	5.0	+0.020 +0.068	7.0	5.0
GSM-0507-08	5.0	+0.020 +0.068	7.0	8.0
GSM-0507-10	5.0	+0.020 +0.068	7.0	10.0
GSM-0607-06	6.0	+0.010 +0.040	7.0	6.0
GSM-0607-17.5	6.0	+0.010 +0.040	7.0	17.5
GSM-0608-015	6.0	+0.020 +0.068	8.0	1.5
GSM-0608-025	6.0	+0.020 +0.068	8.0	2.5
GSM-0608-04	6.0	+0.020 +0.068	8.0	4.0
GSM-0608-05	6.0	+0.020 +0.068	8.0	5.0
GSM-0608-055	6.0	+0.020 +0.068	8.0	5.5
GSM-0608-06	6.0	+0.020 +0.068	8.0	6.0
GSM-0608-08	6.0	+0.020 +0.068	8.0	8.0
GSM-0608-09	6.0	+0.020 +0.068	8.0	9.5

Part number	d1	d1-Tolerance*	d2	b1 h13
GSM-0608-10	6.0	+0.020 +0.068	8.0	10.0
GSM-0608-11	6.0	+0.020 +0.068	8.0	11.8
GSM-0608-13	6.0	+0.020 +0.068	8.0	13.8
GSM-0708-10	7.0	+0.013 +0.049	8.0	10.0
GSM-0708-19	7.0	+0.013 +0.049	8.0	19.0
GSM-0709-08	7.0	+0.025 +0.083	9.0	8.0
GSM-0709-09	7.0	+0.025 +0.083	9.0	9.0
GSM-0709-10	7.0	+0.025 +0.083	9.0	10.0
GSM-0709-12	7.0	+0.025 +0.083	9.0	12.0
GSM-0809-05	8.0	+0.013 +0.049	9.0	5.0
GSM-0809-06	8.0	+0.013 +0.049	9.0	6.0
GSM-0809-08	8.0	+0.013 +0.049	9.0	8.0
GSM-0809-12	8.0	+0.013 +0.049	9.0	12.0
GSM-0810-05	8.0	+0.025 +0.083	10.0	5.0
GSM-0810-06	8.0	+0.025 +0.083	10.0	6.0
GSM-0810-07	8.0	+0.025 +0.083	10.0	6.8
GSM-0810-08	8.0	+0.025 +0.083	10.0	8.0
GSM-0810-10	8.0	+0.025 +0.083	10.0	10.0
GSM-0810-12	8.0	+0.025 +0.083	10.0	12.0
GSM-0810-13	8.0	+0.025 +0.083	10.0	13.8
GSM-0810-15	8.0	+0.025 +0.083	10.0	15.0
GSM-0810-16	8.0	+0.025 +0.083	10.0	16.0
GSM-0810-20	8.0	+0.025 +0.083	10.0	20.0
GSM-0810-22	8.0	+0.025 +0.083	10.0	22.0
GSM-0911-06	9.0	+0.025 +0.083	11.0	6.0

* after pressfit. Testing methods ▶ page 45

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iglidur® G | Product Range

Sleeve Bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
GSM-1011-06	10.0	+0.013 +0.049	11.0	6.0
GSM-1011-10	10.0	+0.013 +0.049	11.0	10.0
GSM-1011-25	10.0	+0.013 +0.049	11.0	25.0
GSM-1011-30	10.0	+0.013 +0.049	11.0	30.0
GSM-1012-04	10.0	+0.025 +0.083	12.0	4.0
GSM-1012-045	10.0	+0.025 +0.083	12.0	4.5
GSM-1012-05	10.0	+0.025 +0.083	12.0	5.0
GSM-1012-06	10.0	+0.025 +0.083	12.0	6.0
GSM-1012-07	10.0	+0.025 +0.083	12.0	7.0
GSM-1012-08	10.0	+0.025 +0.083	12.0	8.0
GSM-1012-09	10.0	+0.025 +0.083	12.0	9.0
GSM-1012-10	10.0	+0.025 +0.083	12.0	10.0
GSM-1012-12	10.0	+0.025 +0.083	12.0	12.0
GSM-1012-14	10.0	+0.025 +0.083	12.0	14.0
GSM-1012-15	10.0	+0.025 +0.083	12.0	15.0
GSM-1012-17	10.0	+0.025 +0.083	12.0	17.0
GSM-1012-20	10.0	+0.025 +0.083	12.0	20.0
GSM-1213-12	12.0	+0.016 +0.059	13.0	12.0
GSM-1213-15	12.0	+0.016 +0.059	13.0	15.0
GSM-1214-04	12.0	+0.032 +0.102	14.0	4.0
GSM-1214-05	12.0	+0.032 +0.102	14.0	5.0
GSM-1214-06	12.0	+0.032 +0.102	14.0	6.0
GSM-1214-08	12.0	+0.032 +0.102	14.0	8.0
GSM-1214-10	12.0	+0.032 +0.102	14.0	10.0
GSM-1214-12	12.0	+0.032 +0.102	14.0	12.0
GSM-1214-14	12.0	+0.032 +0.102	14.0	14.0
GSM-1214-15	12.0	+0.032 +0.102	14.0	15.0
GSM-1214-20	12.0	+0.032 +0.102	14.0	20.0
GSM-1214-25	12.0	+0.032 +0.102	14.0	25.0
GSM-1215-06	12.0	+0.032 +0.102	15.0	6.0
GSM-1215-22	12.0	+0.032 +0.102	15.0	22.0
GSM-1216-10	12.0	+0.050 +0.160	16.0	10.0
GSM-1216-20	12.0	+0.050 +0.160	16.0	20.0
GSM-1315-070	13.0	+0.032 +0.102	15.0	7.0
GSM-1315-075	13.0	+0.032 +0.102	15.0	7.5
GSM-1315-10	13.0	+0.032 +0.102	15.0	10.0
GSM-1315-15	13.0	+0.032 +0.102	15.0	15.0
GSM-1315-20	13.0	+0.032 +0.102	15.0	20.0
GSM-1315-25	13.0	+0.032 +0.102	15.0	25.0
GSM-1416-03	14.0	+0.032 +0.102	16.0	3.0
GSM-1416-06	14.0	+0.032 +0.102	16.0	6.0
GSM-1416-08	14.0	+0.032 +0.102	16.0	8.0
GSM-1416-10	14.0	+0.032 +0.102	16.0	10.0
GSM-1416-12	14.0	+0.032 +0.102	16.0	12.0
GSM-1416-15	14.0	+0.032 +0.102	16.0	15.0
GSM-1416-20	14.0	+0.032 +0.102	16.0	20.0
GSM-1416-25	14.0	+0.032 +0.102	16.0	25.0
GSM-1516-15	15.0	+0.016 +0.059	16.0	15.0
GSM-1517-04	15.0	+0.032 +0.102	17.0	4.0
GSM-1517-10	15.0	+0.032 +0.102	17.0	10.0
GSM-1517-12	15.0	+0.032 +0.102	17.0	12.0
GSM-1517-15	15.0	+0.032 +0.102	17.0	15.0
GSM-1517-20	15.0	+0.032 +0.102	17.0	20.0
GSM-1517-25	15.0	+0.032 +0.102	17.0	25.0
GSM-1618-055	16.0	+0.032 +0.102	18.0	5.5
GSM-1618-08	16.0	+0.032 +0.102	18.0	8.0
GSM-1618-10	16.0	+0.032 +0.102	18.0	10.0
GSM-1618-12	16.0	+0.032 +0.102	18.0	12.0
GSM-1618-13.5	16.0	+0.032 +0.102	18.0	13.5
GSM-1618-15	16.0	+0.032 +0.102	18.0	15.0
GSM-1618-20	16.0	+0.032 +0.102	18.0	20.0
GSM-1618-25	16.0	+0.032 +0.102	18.0	25.0
GSM-1618-30	16.0	+0.032 +0.102	18.0	30.0
GSM-1618-50	16.0	+0.032 +0.102	18.0	50.0
GSM-1820-10	18.0	+0.032 +0.102	20.0	10.0
GSM-1820-12	18.0	+0.032 +0.102	20.0	12.0
GSM-1820-15	18.0	+0.032 +0.102	20.0	15.0
GSM-1820-20	18.0	+0.032 +0.102	20.0	20.0
GSM-1820-25	18.0	+0.032 +0.102	20.0	25.0
GSM-1820-45	18.0	+0.032 +0.102	20.0	45.0
GSM-1922-06	19.0	+0.040 +0.124	22.0	6.0
GSM-1922-28	19.0	+0.040 +0.124	22.0	28.0
GSM-1922-35	19.0	+0.040 +0.124	22.0	35.0
GSM-2021-20	20.0	+0.020 +0.072	21.0	20.0
GSM-2022-03	20.0	+0.040 +0.124	22.0	3.0
GSM-2022-08	20.0	+0.040 +0.124	22.0	8.0
GSM-2022-105	20.0	+0.040 +0.124	22.0	10.5
GSM-2022-15	20.0	+0.040 +0.124	22.0	15.0
GSM-2022-20	20.0	+0.040 +0.124	22.0	20.0
GSM-2022-22	20.0	+0.040 +0.124	22.0	22.0
GSM-2022-30	20.0	+0.040 +0.124	22.0	30.0
GSM-2023-10	20.0	+0.040 +0.124	23.0	10.0
GSM-2023-15	20.0	+0.040 +0.124	23.0	15.0
GSM-2023-20	20.0	+0.040 +0.124	23.0	20.0

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Sleeve Bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
GSM-2023-23	20.0	+0.040 +0.124	23.0	23.0
GSM-2023-24	20.0	+0.040 +0.124	23.0	24.0
GSM-2023-25	20.0	+0.040 +0.124	23.0	25.0
GSM-2023-30	20.0	+0.040 +0.124	23.0	30.0
GSM-2224-10	22.0	+0.040 +0.124	24.0	10.0
GSM-2224-15	22.0	+0.040 +0.124	24.0	15.0
GSM-2224-17	22.0	+0.040 +0.124	24.0	17.0
GSM-2224-20	22.0	+0.040 +0.124	24.0	20.0
GSM-2224-30	22.0	+0.040 +0.124	24.0	30.0
GSM-2225-15	22.0	+0.040 +0.124	25.0	15.0
GSM-2225-20	22.0	+0.040 +0.124	25.0	20.0
GSM-2225-25	22.0	+0.040 +0.124	25.0	25.0
GSM-2225-30	22.0	+0.040 +0.124	25.0	30.0
GSM-2427-06	24.0	+0.040 +0.124	27.0	6.0
GSM-2427-15	24.0	+0.040 +0.124	27.0	15.0
GSM-2427-20	24.0	+0.040 +0.124	27.0	20.0
GSM-2427-25	24.0	+0.040 +0.124	27.0	25.0
GSM-2427-30	24.0	+0.040 +0.124	27.0	30.0
GSM-2526-25	25.0	+0.020 +0.072	26.0	25.0
GSM-2528-15	25.0	+0.040 +0.124	28.0	15.0
GSM-2528-20	25.0	+0.040 +0.124	28.0	20.0
GSM-2528-24	25.0	+0.040 +0.124	28.0	24.0
GSM-2528-25	25.0	+0.040 +0.124	28.0	25.0
GSM-2528-30	25.0	+0.040 +0.124	28.0	30.0
GSM-2528-35	25.0	+0.040 +0.124	28.0	35.0
GSM-2528-50	25.0	+0.040 +0.124	28.0	50.0
GSM-2630-16	26.0	+0.040 +0.124	30.0	16.0
GSM-2730-05	27.0	+0.040 +0.124	30.0	5.0
GSM-2832-105	28.0	+0.040 +0.124	32.0	10.5
GSM-2832-12	28.0	+0.040 +0.124	32.0	12.0
GSM-2832-15	28.0	+0.040 +0.124	32.0	15.0
GSM-2832-20	28.0	+0.040 +0.124	32.0	20.0
GSM-2832-23	28.0	+0.040 +0.124	32.0	23.0
GSM-2832-25	28.0	+0.040 +0.124	32.0	25.0
GSM-2832-30	28.0	+0.040 +0.124	32.0	30.0
GSM-3031-12	30.0	+0.020 +0.072	31.0	12.0
GSM-3031-30	30.0	+0.020 +0.072	31.0	30.0
GSM-3034-15	30.0	+0.040 +0.124	34.0	15.0
GSM-3034-20	30.0	+0.040 +0.124	34.0	20.0

Part number	d1	d1-Tolerance*	d2	b1 h13
GSM-3034-24	30.0	+0.040 +0.124	34.0	24.0
GSM-3034-25	30.0	+0.040 +0.124	34.0	25.0
GSM-3034-30	30.0	+0.040 +0.124	34.0	30.0
GSM-3034-35	30.0	+0.040 +0.124	34.0	35.0
GSM-3034-40	30.0	+0.040 +0.124	34.0	40.0
GSM-3034-525	30.0	+0.040 +0.124	34.0	52.5
GSM-3236-20	32.0	+0.050 +0.150	36.0	20.0
GSM-3236-30	32.0	+0.050 +0.150	36.0	30.0
GSM-3236-40	32.0	+0.050 +0.150	36.0	40.0
GSM-3539-14	35.0	+0.050 +0.150	39.0	14.0
GSM-3539-20	35.0	+0.050 +0.150	39.0	20.0
GSM-3539-25	35.0	+0.050 +0.150	39.0	25.0
GSM-3539-30	35.0	+0.050 +0.150	39.0	30.0
GSM-3539-40	35.0	+0.050 +0.150	39.0	40.0
GSM-3539-50	35.0	+0.050 +0.150	39.0	50.0
GSM-3640-20	36.0	+0.050 +0.150	40.0	20.0
GSM-3741-20	37.0	+0.050 +0.150	41.0	20.0
GSM-4044-10	40.0	+0.050 +0.150	44.0	10.0
GSM-4044-16	40.0	+0.050 +0.150	44.0	16.5
GSM-4044-20	40.0	+0.050 +0.150	44.0	20.0
GSM-4044-30	40.0	+0.050 +0.150	44.0	30.0
GSM-4044-40	40.0	+0.050 +0.150	44.0	40.0
GSM-4044-50	40.0	+0.050 +0.150	44.0	50.0
GSM-4246-40	42.0	+0.050 +0.150	46.0	40.0
GSM-4550-22	45.0	+0.050 +0.150	50.0	22.0
GSM-4550-235	45.0	+0.050 +0.150	50.0	23.5
GSM-4550-30	45.0	+0.050 +0.150	50.0	30.0
GSM-4550-38	45.0	+0.050 +0.150	50.0	38.0
GSM-4550-40	45.0	+0.050 +0.150	50.0	40.0
GSM-4550-50	45.0	+0.050 +0.150	50.0	50.0
GSM-5055-20	50.0	+0.050 +0.150	55.0	20.0
GSM-5055-25	50.0	+0.050 +0.150	55.0	25.0
GSM-5055-30	50.0	+0.050 +0.150	55.0	30.0
GSM-5055-40	50.0	+0.050 +0.150	55.0	40.0
GSM-5055-50	50.0	+0.050 +0.150	55.0	50.0
GSM-5257-20	52.0	+0.060 +0.180	57.0	20.0
GSM-5560-20	55.0	+0.060 +0.180	60.0	20.0
GSM-5560-40	55.0	+0.060 +0.180	60.0	40.0
GSM-5560-50	55.0	+0.060 +0.180	60.0	50.0

* after pressfit. Testing methods ▶ page 45

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Sleeve Bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
GSM-5560-60	55.0	+0.060 +0.180	60.0	60.0
GSM-6065-30	60.0	+0.060 +0.180	65.0	30.0
GSM-6065-40	60.0	+0.060 +0.180	65.0	40.0
GSM-6065-50	60.0	+0.060 +0.180	65.0	50.0
GSM-6065-60	60.0	+0.060 +0.180	65.0	60.0
GSM-6570-30	65.0	+0.060 +0.180	70.0	30.0
GSM-6570-50	65.0	+0.060 +0.180	70.0	50.0
GSM-7075-60	70.0	+0.060 +0.180	75.0	60.0
GSM-7277-76	72.0	+0.060 +0.180	77.0	76.0
GSM-7580-40	75.0	+0.060 +0.180	80.0	40.0
GSM-7580-60	75.0	+0.060 +0.180	80.0	60.0
GSM-8085-60	80.0	+0.060 +0.180	85.0	60.0
GSM-8085-100	80.0	+0.060 +0.180	85.0	100.0

Part number	d1	d1-Tolerance*	d2	b1 h13
GSM-8590-100	85.0	+0.072 +0.212	90.0	100.0
GSM-9095-100	90.0	+0.072 +0.212	95.0	100.0
GSM-95100-100	95.0	+0.072 +0.212	100.0	100.0
GSM-100105-30	100.0	+0.072 +0.212	105.0	30.0
GSM-100105-100	100.0	+0.072 +0.212	105.0	100.0
GSM-110115-100	110.0	+0.072 +0.212	115.0	100.0
GSM-120125-100	120.0	+0.072 +0.212	125.0	100.0
GSM-125130-100	125.0	+0.085 +0.245	130.0	100.0
GSM-130135-100	130.0	+0.085 +0.245	135.0	100.0
GSM-135140-80	135.0	+0.085 +0.245	140.0	80.0
GSM-140145-100	140.0	+0.085 +0.245	145.0	100.0
GSM-150155-100	150.0	+0.085 +0.245	155.0	100.0

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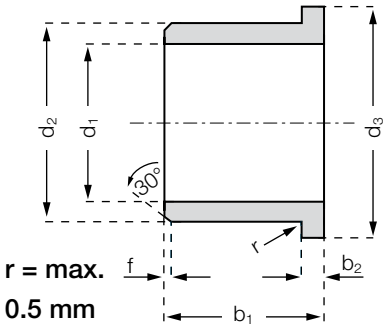
Flange Bearing



Order key

GFM-0304-02

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form F)
- Material iglidur® G

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
GFM-0304-02	3.0	+0.014 +0.054	4.5	7.5	2.0	0.5
GFM-0304-0275	3.0	+0.014 +0.054	4.5	7.5	2.7	0.75
GFM-0304-03	3.0	+0.014 +0.054	4.5	7.5	3.0	0.75
GFM-0304-05	3.0	+0.014 +0.054	4.5	7.5	5.0	0.75
GFM-030407-05	3.0	+0.014 +0.054	4.5	7.0	5.0	0.75
GFM-0405-03	4.0	+0.020 +0.068	5.5	9.5	3.0	0.75
GFM-0405-04	4.0	+0.020 +0.068	5.5	9.5	4.0	0.75
GFM-0405-06	4.0	+0.020 +0.068	5.5	9.5	6.0	0.75
GFM-04050-04	4.0	+0.010 +0.040	5.0	9.5	4.0	0.5
GFM-04050-06	4.0	+0.010 +0.040	5.0	9.5	6.0	0.5
GFM-040508-10	4.0	+0.020 +0.068	5.5	8.0	10.0	1.0
GFM-0506-035	5.0	+0.010 +0.040	6.0	10.0	3.5	0.5
GFM-0506-04	5.0	+0.010 +0.040	6.0	10.0	4.0	0.5
GFM-0506-05	5.0	+0.010 +0.040	6.0	10.0	5.0	0.5
GFM-0506-06	5.0	+0.010 +0.040	6.0	10.0	6.0	0.5
GFM-0506-15	5.0	+0.010 +0.040	6.0	10.0	15.0	0.5
GFM-0507-03	5.0	+0.020 +0.068	7.0	11.0	3.5	1.0
GFM-0507-04	5.0	+0.020 +0.068	7.0	11.0	4.0	1.0
GFM-0507-05	5.0	+0.020 +0.068	7.0	11.0	5.0	1.0
GFM-0507-30	5.0	+0.020 +0.068	7.0	11.0	30.0	1.0
GFM-050709-05	5.0	+0.020 +0.068	7.0	9.5	5.0	1.0
GFM-050715-04	5.0	+0.020 +0.068	7.0	15.0	4.0	1.0
GFM-0607-024	6.0	+0.010 +0.040	7.0	11.0	2.4	0.5
GFM-0607-045	6.0	+0.010 +0.040	7.0	11.0	4.5	0.5
GFM-0607-06	6.0	+0.010 +0.040	7.0	11.0	6.0	0.5

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Flange Bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
GFM-0607-10	6.0	+0.010 +0.040	7.0	11.0	10.0	0.5
GFM-0608-025	6.0	+0.020 +0.068	8.0	12.0	2.5	1.0
GFM-0608-04	6.0	+0.020 +0.068	8.0	12.0	4.0	1.0
GFM-0608-048	6.0	+0.020 +0.068	8.0	12.0	4.8	1.0
GFM-0608-05	6.0	+0.020 +0.068	8.0	12.0	5.0	1.0
GFM-0608-06	6.0	+0.020 +0.068	8.0	12.0	6.0	1.0
GFM-0608-07	6.0	+0.020 +0.068	8.0	12.0	7.0	1.0
GFM-0608-08	6.0	+0.020 +0.068	8.0	12.0	8.0	1.0
GFM-0608-10	6.0	+0.020 +0.068	8.0	12.0	10.0	1.0
GFM-0608-25	6.0	+0.020 +0.068	8.0	12.0	25.0	1.0
GFM-0608-35	6.0	+0.020 +0.068	8.0	12.0	35.0	1.0
GFM-060814-12	6.0	+0.020 +0.068	8.0	14.0	12.0	1.0
GFM-060814-028	6.0	+0.020 +0.068	8.0	14.0	2.8	1.0
GFM-0708-03	7.0	+0.013 +0.049	8.0	12.0	3.0	0.5
GFM-0708-08	7.0	+0.013 +0.049	8.0	12.0	8.0	0.5
GFM-0709-06	7.0	+0.025 +0.083	9.0	15.0	6.0	1.0
GFM-0709-10	7.0	+0.025 +0.083	9.0	15.0	10.0	1.0
GFM-0709-12	7.0	+0.025 +0.083	9.0	15.0	12.0	1.0
GFM-0709-035	7.0	+0.025 +0.083	9.0	15.0	3.5	1.0
GFM-070919-10	7.0	+0.025 +0.083	9.0	19.0	10.0	1.0
GFM-0809-03	8.0	+0.013 +0.049	9.0	15.0	3.0	0.5
GFM-0809-055	8.0	+0.013 +0.049	9.0	13.0	5.5	0.5
GFM-0809-08	8.0	+0.013 +0.049	9.0	13.0	8.0	0.5
GFM-0809-12	8.0	+0.013 +0.049	9.0	13.0	12.0	0.5
GFM-0810-03	8.0	+0.025 +0.083	10.0	15.0	3.0	1.0
GFM-0810-04	8.0	+0.025 +0.083	10.0	15.0	4.0	1.0
GFM-0810-05	8.0	+0.025 +0.083	10.0	15.0	5.5	1.0
GFM-0810-065	8.0	+0.025 +0.083	10.0	15.0	6.5	1.0
GFM-0810-07	8.0	+0.025 +0.083	10.0	15.0	7.5	1.0
GFM-0810-09	8.0	+0.025 +0.083	10.0	15.0	9.5	1.0
GFM-0810-10	8.0	+0.025 +0.083	10.0	15.0	10.0	1.0
GFM-0810-15	8.0	+0.025 +0.083	10.0	15.0	15.0	1.0
GFM-0810-25	8.0	+0.025 +0.083	10.0	15.0	25.0	1.0
GFM-0810-30	8.0	+0.025 +0.083	10.0	15.0	30.0	1.0
GFM-081012-125	8.0	+0.025 +0.083	10.0	12.0	12.5	1.0
GFM-081013-08	8.0	+0.025 +0.083	10.0	13.0	8.0	1.0
GFM-081014-05	8.0	+0.040 + 0.098	10.0	14.0	5.0	1.0
GFM-081014-06	8.0	+0.025 +0.083	10.0	14.0	6.0	1.0
GFM-081014-08	8.0	+0.025 +0.083	10.0	14.0	8.0	1.0
GFM-081014-10	8.0	+0.025 +0.083	10.0	14.0	10.0	1.0
GFM-081016-11	8.0	+0.025 +0.083	10.0	16.0	11.5	1.5
GFM-081016-15	8.0	+0.025 +0.083	10.0	16.0	15.5	1.5

* after pressfit. Testing methods ▶ page 45

Flange Bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
GFM-081017-15	8.0	+0.025 +0.083	10.0	17.0	15.0	1.0
GFM-0910-17	9.0	+0.013 +0.049	10.0	15.0	17.5	0.5
GFM-0910-065	9.0	+0.013 +0.049	10.0	15.0	6.5	0.5
GFM-1011-026	10.0	+0.013 +0.049	11.0	15.0	2.6	0.5
GFM-1011-044	10.0	+0.013 +0.049	11.0	15.0	4.4	0.5
GFM-1011-10	10.0	+0.013 +0.049	11.0	15.0	10.0	0.5
GFM-1012-035	10.0	+0.025 +0.083	12.0	18.0	3.5	1.0
GFM-1012-04	10.0	+0.025 +0.083	12.0	18.0	4.0	1.0
GFM-1012-05	10.0	+0.025 +0.083	12.0	18.0	5.0	1.0
GFM-1012-06	10.0	+0.025 +0.083	12.0	18.0	6.0	1.0
GFM-1012-07	10.0	+0.025 +0.083	12.0	18.0	7.0	1.0
GFM-1012-09	10.0	+0.025 +0.083	12.0	18.0	9.0	1.0
GFM-1012-10	10.0	+0.025 +0.083	12.0	18.0	10.0	1.0
GFM-1012-12	10.0	+0.025 +0.083	12.0	18.0	12.0	1.0
GFM-1012-15	10.0	+0.025 +0.083	12.0	18.0	15.0	1.0
GFM-1012-17	10.0	+0.025 +0.083	12.0	18.0	17.0	1.0
GFM-101214-07	10.0	+0.025 +0.083	12.0	14.0	7.0	1.0
GFM-101215-12	10.0	+0.025 +0.083	12.0	15.0	12.0	1.0
GFM-101216-06	10.0	+0.025 +0.083	12.0	16.0	6.0	1.0
GFM-101216-09	10.0	+0.025 +0.083	12.0	16.0	9.0	1.0
GFM-101216-15	10.0	+0.025 +0.083	12.0	16.0	15.0	1.0
GFM-1213-03	12.0	+0.016 +0.059	13.0	17.0	3.0	0.5
GFM-1213-12	12.0	+0.016 +0.059	13.0	17.0	12.0	0.5
GFM-1214-03	12.0	+0.032 +0.102	14.0	20.0	3.0	1.0
GFM-1214-06	12.0	+0.032 +0.102	14.0	20.0	6.0	1.0
GFM-1214-07	12.0	+0.032 +0.102	14.0	20.0	7.0	1.0
GFM-1214-09	12.0	+0.032 +0.102	14.0	20.0	9.0	1.0
GFM-1214-10	12.0	+0.032 +0.102	14.0	20.0	10.0	1.0
GFM-1214-11	12.0	+0.032 +0.102	14.0	20.0	11.0	1.0
GFM-1214-12	12.0	+0.032 +0.102	14.0	20.0	12.0	1.0
GFM-1214-15	12.0	+0.032 +0.102	14.0	20.0	15.0	1.0
GFM-1214-17	12.0	+0.032 +0.102	14.0	20.0	17.0	1.0
GFM-1214-20	12.0	+0.032 +0.102	14.0	20.0	20.0	1.0
GFM-1214-24	12.0	+0.032 +0.102	14.0	20.0	24.0	1.0
GFM-121418-04	12.0	+0.032 +0.102	14.0	18.0	4.0	1.0
GFM-121418-08	12.0	+0.032 +0.102	14.0	18.0	8.0	1.0
GFM-121418-10	12.0	+0.032 +0.102	14.0	18.0	10.0	1.0
GFM-121418-12	12.0	+0.032 +0.102	14.0	18.0	12.0	1.0
GFM-121418-15	12.0	+0.032 +0.102	14.0	18.0	15.0	1.0

* after pressfit. Testing methods ▶ page 45

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iglidur® G | Product Range

Flange Bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
GFM-121418-20	12.0	+0.032 +0.102	14.0	18.0	20.0	1.0
GFM-1315-06	13.0	+0.032 +0.102	15.0	22.0	6.0	1.0
GFM-1416-03	14.0	+0.032 +0.102	16.0	22.0	3.0	1.0
GFM-1416-04	14.0	+0.032 +0.102	16.0	22.0	4.0	1.0
GFM-1416-06	14.0	+0.032 +0.102	16.0	22.0	6.0	1.0
GFM-1416-08	14.0	+0.032 +0.102	16.0	22.0	8.0	1.0
GFM-1416-10	14.0	+0.032 +0.102	16.0	22.0	10.0	1.0
GFM-1416-12	14.0	+0.032 +0.102	16.0	22.0	12.0	1.0
GFM-1416-17	14.0	+0.032 +0.102	16.0	22.0	17.0	1.0
GFM-1416-21	14.0	+0.032 +0.102	16.0	22.0	21.0	1.0
GFM-1516-02	15.0	+0.016 +0.059	16.0	20.0	2.0	0.5
GFM-1516-025	15.0	+0.016 +0.059	16.0	20.0	2.5	0.5
GFM-1516-03	15.0	+0.016 +0.059	16.0	20.0	3.0	0.5
GFM-1516-15	15.0	+0.016 +0.059	16.0	20.0	15.0	0.5
GFM-1517-04	15.0	+0.032 +0.102	17.0	23.0	4.0	1.0
GFM-1517-045	15.0	+0.032 +0.102	17.0	23.0	4.5	1.0
GFM-1517-05	15.0	+0.032 +0.102	17.0	23.0	5.0	1.0
GFM-1517-09	15.0	+0.032 +0.102	17.0	23.0	9.0	1.0
GFM-1517-12	15.0	+0.032 +0.102	17.0	23.0	12.0	1.0
GFM-1517-17	15.0	+0.032 +0.102	17.0	23.0	17.0	1.0
GFM-1517-20	15.0	+0.032 +0.102	17.0	23.0	20.0	1.0
GFM-151824-32	15.0	+0.032 +0.102	18.0	24.0	32.0	1.5
GFM-1618-04	16.0	+0.032 +0.102	18.0	24.0	4.0	1.0
GFM-1618-06	16.0	+0.032 +0.102	18.0	24.0	6.0	1.0
GFM-1618-09	16.0	+0.032 +0.102	18.0	24.0	9.0	1.0
GFM-1618-12	16.0	+0.032 +0.102	18.0	24.0	12.0	1.0
GFM-1618-17	16.0	+0.032 +0.102	18.0	24.0	17.0	1.0
GFM-1618-21	16.0	+0.032 +0.102	18.0	24.0	21.0	1.0
GFM-1719-09	17.0	+0.032 +0.102	19.0	25.0	9.0	1.0
GFM-1719-25	17.0	+0.032 +0.102	19.0	25.0	25.0	1.0
GFM-1820-04	18.0	+0.032 +0.102	20.0	26.0	4.0	1.0
GFM-1820-06	18.0	+0.032 +0.102	20.0	26.0	6.0	1.0
GFM-1820-09	18.0	+0.032 +0.102	20.0	26.0	9.0	1.0
GFM-1820-11	18.0	+0.032 +0.102	20.0	26.0	11.0	1.0
GFM-1820-12	18.0	+0.032 +0.102	20.0	26.0	12.0	1.0
GFM-1820-17	18.0	+0.032 +0.102	20.0	26.0	17.0	1.0
GFM-1820-22	18.0	+0.032 +0.102	20.0	26.0	22.0	1.0
GFM-1820-30	18.0	+0.032 +0.102	20.0	26.0	30.0	1.0
GFM-1820-32	18.0	+0.032 +0.102	20.0	26.0	32.0	1.0
GFM-182022-06	18.0	+0.032 +0.102	20.0	22.0	6.0	1.0
GFM-1822-28	18.0	+0.032 +0.102	22.0	26.0	28.0	2.0
GFM-2021-20	20.0	+0.020 +0.072	21.0	25.0	20.0	0.5

* after pressfit. Testing methods ▶ page 45

Flange Bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
GFM-2023-07	20.0	+0.040 +0.124	23.0	30.0	7.0	1.5
GFM-2023-11	20.0	+0.040 +0.124	23.0	30.0	11.5	1.5
GFM-2023-16	20.0	+0.040 +0.124	23.0	30.0	16.5	1.5
GFM-2023-21	20.0	+0.040 +0.124	23.0	30.0	21.5	1.5
GFM-202326-21	20.0	+0.040 +0.124	23.0	26.0	21.5	1.5
GFM-202328-15	20.0	+0.040 +0.124	23.0	28.0	15.0	1.5
GFM-222535-315	22.0	+0.040 +0.124	25.0	35.0	31.5	1.5
GFM-2427-07	24.0	+0.040 +0.124	27.0	32.0	7.0	1.5
GFM-2427-10	24.0	+0.040 +0.124	27.0	32.0	10.5	1.5
GFM-2526-25	25.0	+0.020 +0.072	26.0	30.0	25.0	0.5
GFM-2527-48	25.0	+0.040 +0.124	27.0	32.0	48.0	1.0
GFM-2528-11	25.0	+0.040 +0.124	28.0	35.0	11.5	1.5
GFM-2528-16	25.0	+0.040 +0.124	28.0	35.0	16.5	1.5
GFM-2528-21	25.0	+0.040 +0.124	28.0	35.0	21.5	1.5
GFM-2830-10	28.0	+0.040 +0.124	30.0	36.0	10.0	1.0
GFM-2830-36	28.0	+0.040 +0.124	30.0	35.0	36.0	1.0
GFM-283239-20	28.0	+0.040 +0.124	32.0	39.0	20.0	2.0
GFM-3031-20	30.0	+0.040 +0.124	31.0	36.0	20.0	0.5
GFM-3031-30	30.0	+0.040 +0.124	31.0	35.0	30.0	0.5
GFM-3032-04	30.0	+0.040 +0.124	32.0	37.0	4.0	1.0
GFM-3032-12	30.0	+0.040 +0.124	32.0	37.0	12.0	1.0
GFM-3032-17	30.0	+0.040 +0.124	32.0	37.0	17.5	1.0
GFM-3032-22	30.0	+0.040 +0.124	32.0	37.0	22.0	1.0
GFM-3034-09	30.0	+0.040 +0.124	34.0	42.0	9.0	2.0
GFM-3034-16	30.0	+0.040 +0.124	34.0	42.0	16.0	2.0
GFM-3034-20	30.0	+0.040 +0.124	34.0	42.0	20.0	2.0
GFM-3034-26	30.0	+0.040 +0.124	34.0	42.0	26.0	2.0
GFM-3034-37	30.0	+0.040 +0.124	34.0	42.0	37.0	2.0
GFM-3236-16	32.0	+0.050 +0.150	36.0	40.0	16.0	2.0
GFM-3236-26	32.0	+0.050 +0.150	36.0	40.0	26.0	2.0
GFM-343850-35	34.0	+0.050 +0.150	38.0	50.0	35.0	2.0
GFM-3539-058	35.0	+0.050 +0.150	39.0	47.0	5.8	2.0
GFM-3539-07	35.0	+0.050 +0.150	39.0	47.0	7.0	2.0
GFM-3539-16	35.0	+0.050 +0.150	39.0	47.0	16.0	2.0
GFM-3539-26	35.0	+0.050 +0.150	39.0	47.0	26.0	2.0
GFM-3539-36	35.0	+0.050 +0.150	39.0	47.0	36.0	2.0
GFM-3842-22	38.0	+0.050 +0.150	42.0	54.0	22.0	2.0
GFM-4044-07	40.0	+0.050 +0.150	44.0	52.0	7.0	2.0
GFM-4044-14	40.0	+0.050 +0.150	44.0	52.0	14.0	2.0

* after pressfit. Testing methods ▶ page 45

delivery time from stock

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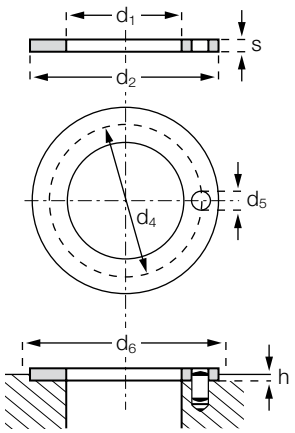
Flange Bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
GFM-4044-20	40.0	+0.050 +0.150	44.0	52.0	20.0	2.0
GFM-4044-30	40.0	+0.050 +0.150	44.0	52.0	30.0	2.0
GFM-4044-40	40.0	+0.050 +0.150	44.0	52.0	40.0	2.0
GFM-4044-50	40.0	+0.050 +0.150	44.0	52.0	50.0	2.0
GFM-4246-19	42.0	+0.050 +0.150	46.0	53.0	19.0	2.0
GFM-4550-25	45.0	+0.050 +0.150	50.0	58.0	25.0	2.0
GFM-4550-30	45.0	+0.050 +0.150	50.0	58.0	30.0	2.0
GFM-4550-50	45.0	+0.050 +0.150	50.0	58.0	50.0	2.0
GFM-5055-07	50.0	+0.050 +0.150	55.0	63.0	7.0	2.0
GFM-5055-10	50.0	+0.050 +0.150	55.0	63.0	10.0	2.0
GFM-5055-25	50.0	+0.050 +0.150	55.0	63.0	25.0	2.0
GFM-5055-40	50.0	+0.050 +0.150	55.0	63.0	40.0	2.0
GFM-5055-50	50.0	+0.050 +0.150	55.0	63.0	50.0	2.0
GFM-6065-22	60.0	+0.060 +0.180	65.0	73.0	22.0	2.0
GFM-6065-30	60.0	+0.060 +0.180	65.0	73.0	30.0	2.0
GFM-6065-50	60.0	+0.060 +0.180	65.0	73.0	50.0	2.0
GFM-606580-62	60.0	+0.060 +0.180	65.0	80.0	62.0	2.0
GFM-6570-50	65.0	+0.060 +0.180	70.0	78.0	50.0	2.0
GFM-7075-50	70.0	+0.060 +0.180	75.0	83.0	50.0	2.0
GFM-7580-50	75.0	+0.060 +0.180	80.0	88.0	50.0	2.0
GFM-8085-100	80.0	+0.060 +0.180	85.0	93.0	100.0	2.5
GFM-8590-100	85.0	+0.072 +0.212	90.0	98.0	100.0	2.5
GFM-9095-100	90.0	+0.072 +0.212	95.0	103.0	100.0	2.5
GFM-95100-100	95.0	+0.072 +0.212	100.0	108.0	100.0	2.5
GFM-100105-100	100.0	+0.072 +0.212	105.0	113.0	100.0	2.5
GFM-100105-425	100.0	+0.072 +0.212	105.0	113.0	42.5	2.5
GFM-110115-100	110.0	+0.072 +0.212	115.0	123.0	100.0	2.5
GFM-120125-100	120.0	+0.072 +0.212	125.0	133.0	100.0	2.5
GFM-125130-100	125.0	+0.085 +0.245	130.0	138.0	100.0	2.5
GFM-130135-100	130.0	+0.085 +0.245	135.0	143.0	100.0	2.5
GFM-140145-100	140.0	+0.085 +0.245	145.0	153.0	100.0	2.5
GFM-150155-40	150.0	+0.085 +0.245	155.0	163.0	40.0	2.5
GFM-150155-100	150.0	+0.085 +0.245	155.0	163.0	100.0	2.5

* after pressfit. Testing methods ▶ page 45

Thrust Washer



Order key

GTM-1630-015

- Thickness s
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form T)
- Material iglidur® G

Dimensions according to ISO 3547-1 and special dimensions

Dimensions [mm]

Part number	d1 +0.25	d2 −0.25	s −0.05	d4 −0.12 +0.12	d5 +0.375 +0.125	h +0.2 −0.2	d6 +0.12
GTM-0509-006	5.0	9.5	0.6	**	**	0.3	9.5
GTM-0615-015	6.0	15.0	1.5	**	**	1.0	15
GTM-0620-015	6.0	20.0	1.5	13.0	1.5	1.0	20
GTM-0713-005	7.0	13.0	0.5	**	**	0.2	13
GTM-0815-005	8.0	15.0	0.5	**	**	0.2	15
GTM-0815-015	8.0	15.0	1.5	**	**	1.0	15
GTM-0818-010	8.0	18.0	1.0	**	**	0.7	18
GTM-0818-015	8.0	18.0	1.5	13.0	1.5	1.0	18
GTM-0918-015	9.0	18.0	1.5	13.5	1.5	1.0	18
GTM-1018-010	10.0	18.0	1.0	**	**	0.7	18
GTM-1018-020	10.0	18.0	2.0	**	**	1.5	18
GTM-1224-015	12.0	24.0	1.5	18.0	1.5	1.0	24
GTM-1420-015	14.0	20.0	1.5	**	**	1.0	20
GTM-1426-015	14.0	26.0	1.5	20.0	2.0	1.0	26
GTM-1522-008	15.0	22.0	0.8	**	**	0.5	22
GTM-1524-015	15.0	24.0	1.5	19.5	1.5	1.0	24
GTM-1524-0275	15.0	24.0	2.75	**	**	2.0	24
GTM-1630-015	16.0	30.0	1.5	22.0	2.0	1.0	30
GTM-1832-015	18.0	32.0	1.5	25.0	2.0	1.0	32
GTM-2036-015	20.0	36.0	1.5	28.0	3.0	1.0	36
GTM-2238-015	22.0	38.0	1.5	30.0	3.0	1.0	38
GTM-2442-015	24.0	42.0	1.5	33.0	3.0	1.0	42
GTM-2644-015	26.0	44.0	1.5	35.0	3.0	1.0	44
GTM-2835-005	28.5	35.8	0.5	**	**	0.2	35.8

** Design without fixing bore

delivery time from stock

prices price list online www.igus.eu/eu/g

Thrust Washer

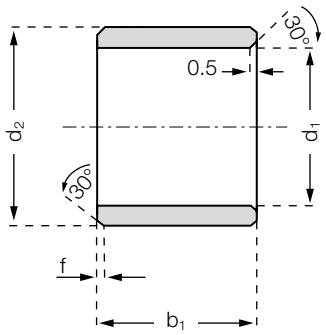
Dimensions [mm]

Part number	d1 +0.25	d2 –0.25	s –0.05	d4 –0.12 +0.12	d5 +0.375 +0.125	h +0.2 –0.2	d6 +0.12
GTM-2848-015	28.0	48.0	1.5	38.0	4.0	1.0	48
GTM-3254-015	32.0	54.0	1.5	43.0	4.0	1.0	54
GTM-3862-015	38.0	62.0	1.5	50.0	4.0	1.0	62
GTM-4266-015	42.0	66.0	1.5	54.0	4.0	1.0	66
GTM-4874-020	48.0	74.0	2.0	61.0	4.0	1.5	74
GTM-5278-020	52.0	78.0	2.0	65.0	4.0	1.5	78
GTM-6290-020	62.0	90.0	2.0	76.0	4.0	1.5	90
GTM-6881-020	68.0	81.0	2.0	**	**	1.5	81

** Design without fixing bore

iglidur® G | Product Range | Inch

Sleeve Bearing



Order key

GSI-0203-03

- Length b1
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form S)
- Material iglidur® G

Chamfer in relation to the d1

d1 [Inch]:	Ø 0.040–0.236	Ø 0.236–0.472	Ø 0.472–1.18	Ø > 1.18
f [Inch]:	0.012	0.019	0.031	0.047

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing Bore		Shaft Size	
				max.	min.	max.	min.	max.	min.
GSI-0203-03	1/8	3/16	3/16	.1269	.1251	.1878	.1873	.1243	.1236
GSI-0203-04	1/8	3/16	1/4	.1269	.1251	.1878	.1873	.1243	.1236
GSI-0203-06	1/8	3/16	3/8	.1269	.1251	.1878	.1873	.1243	.1236
GSI-0304-04	3/16	1/4	1/4	.1892	.1873	.2503	.2497	.1865	.1858
GSI-0304-06	3/16	1/4	3/8	.1892	.1873	.2503	.2497	.1865	.1858
GSI-0304-08	3/16	1/4	1/2	.1892	.1873	.2503	.2497	.1865	.1858
GSI-0405-04	1/4	5/16	1/4	.2521	.2498	.3128	.3122	.2490	.2481
GSI-0405-05	1/4	5/16	5/16	.2521	.2498	.3128	.3122	.2490	.2481
GSI-0405-06	1/4	5/16	3/8	.2521	.2498	.3128	.3122	.2490	.2481
GSI-0405-08	1/4	5/16	1/2	.2521	.2498	.3128	.3122	.2490	.2481
GSI-0405-10	1/4	5/16	5/8	.2521	.2498	.3128	.3122	.2490	.2481
GSI-0405-12	1/4	5/16	3/4	.2521	.2498	.3128	.3122	.2490	.2481
GSI-0506-04	5/16	3/8	1/4	.3148	.3125	.3753	.3747	.3115	.3106
GSI-0506-06	5/16	3/8	3/8	.3148	.3125	.3753	.3747	.3115	.3106
GSI-0506-08	5/16	3/8	1/2	.3148	.3125	.3753	.3747	.3115	.3106
GSI-0506-12	5/16	3/8	3/4	.3148	.3125	.3753	.3747	.3115	.3106
GSI-0607-04	3/8	15/32	1/4	.3773	.3750	.4691	.4684	.3740	.3731
GSI-0607-06	3/8	15/32	3/8	.3773	.3750	.4691	.4684	.3740	.3731
GSI-0607-08	3/8	15/32	1/2	.3773	.3750	.4691	.4684	.3740	.3731
GSI-0607-12	3/8	15/32	3/4	.3773	.3750	.4691	.4684	.3740	.3731
GSI-0608-08	3/8	8/16	1/2	.3783	.3760	.5015	.5010	.3750	.3741
GSI-0608-12	3/8	8/16	3/4	.3773	.3750	.5015	.5010	.3750	.3741
GSI-0708-04	7/16	17/32	1/4	.4406	.4379	.5316	.5309	.4365	.4355
GSI-0708-08	7/16	17/32	1/2	.4406	.4379	.5316	.5309	.4365	.4355
GSI-0809-03	1/2	19/32	3/16	.5030	.5003	.5941	.5934	.4990	.4980

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online www.igus.eu/eu/g

iglidur® G | Product Range | Inch

Sleeve Bearing

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing Bore		Shaft Size	
				max.	min.	max.	min.	max.	min.
GSI-0809-04	1/2	19/32	1/4	.5030	.5003	.5941	.5934	.4990	.4980
GSI-0809-06	1/2	19/32	3/8	.5030	.5003	.5941	.5934	.4990	.4980
GSI-0809-08	1/2	19/32	1/2	.5030	.5003	.5941	.5934	.4990	.4980
GSI-0809-10	1/2	19/32	5/8	.5030	.5003	.5941	.5934	.4990	.4980
GSI-0809-16	1/2	19/32	1	.5030	.5003	.5941	.5934	.4990	.4980
GSI-0810-08	1/2	5/8	1/2	.5040	.5013	.6260	.6250	.5000	.4990
GSI-0810-12	1/2	5/8	3/4	.5040	.5013	.6260	.6250	.5000	.4990
GSI-0910-06	9/16	21/32	3/8	.5655	.5627	.6566	.6559	.5615	.5605
GSI-0910-08	9/16	21/32	1/2	.5655	.5627	.6566	.6559	.5615	.5605
GSI-0910-10	9/16	21/32	5/8	.5655	.5627	.6566	.6559	.5615	.5605
GSI-1011-06	5/8	23/32	3/8	.6280	.6253	.7192	.7184	.6240	.6230
GSI-1011-08	5/8	23/32	1/2	.6280	.6253	.7192	.7184	.6240	.6230
GSI-1011-10	5/8	23/32	5/8	.6280	.6253	.7192	.7184	.6240	.6230
GSI-1011-12	5/8	23/32	3/4	.6280	.6253	.7192	.7184	.6240	.6230
GSI-1011-16	5/8	23/32	1	.6280	.6253	.7192	.7184	.6240	.6230
GSI-1011-20	5/8	23/32	1 1/4	.6280	.6253	.7192	.7184	.6240	.6230
GSI-1011-30	5/8	23/32	1 7/8	.6280	.6253	.7192	.7184	.6240	.6230
GSI-1012-08	5/8	3/4	1/2	.6290	.6263	.7510	.7500	.6250	.6240
GSI-1012-16	5/8	3/4	1	.6290	.6263	.7510	.7500	.6250	.6240
GSI-1112-14	11/16	25/32	7/8	.6906	.6879	.7817	.7809	.6865	.6855
GSI-1214-02	3/4	7/8	1/8	.7541	.7505	.8755	.8747	.7491	.7479
GSI-1214-06	3/4	7/8	3/8	.7541	.7505	.8755	.8747	.7491	.7479
GSI-1214-08	3/4	7/8	1/2	.7541	.7505	.8755	.8747	.7491	.7479
GSI-1214-12	3/4	7/8	3/4	.7541	.7505	.8755	.8747	.7491	.7479
GSI-1214-16	3/4	7/8	1	.7541	.7505	.8755	.8747	.7491	.7479
GSI-1214-20	3/4	7/8	1 1/4	.7541	.7505	.8755	.8747	.7491	.7479
GSI-1214-24	3/4	7/8	1 1/2	.7541	.7505	.8755	.8747	.7491	.7479
GSI-1416-06	7/8	1	3/8	.8791	.8757	1.0005	.9997	.8741	.8729
GSI-1416-08	7/8	1	1/2	.8791	.8757	1.0005	.9997	.8741	.8729
GSI-1416-10	7/8	1	5/8	.8791	.8757	1.0005	.9997	.8741	.8729
GSI-1416-12	7/8	1	3/4	.8791	.8757	1.0005	.9997	.8741	.8729
GSI-1416-16	7/8	1	1	.8791	.8757	1.0005	.9997	.8741	.8729
GSI-1416-24	7/8	1	1 1/2	.8791	.8757	1.0005	.9997	.8741	.8729
GSI-1618-08	1	1 1/8	1/2	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GSI-1618-12	1	1 1/8	3/4	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GSI-1618-16	1	1 1/8	1	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GSI-1618-20	1	1 1/8	1 1/4	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GSI-1618-24	1	1 1/8	1 1/2	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GSI-1618-33	1	1 1/8	2 1/16	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GSI-1820-12	1 1/8	1 9/32	3/4	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
GSI-1820-24	1 1/8	1 9/32	1 1/2	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
GSI-2022-12	1 1/4	1 13/32	3/4	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472

* after pressfit. Testing methods ▶ page 45

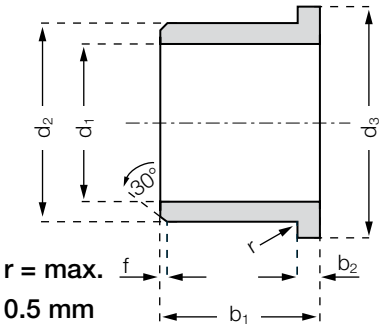
Sleeve Bearing

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing Bore		Shaft Size	
				max.	min.	max.	min.	max.	min.
GSI-2022-14	1 1/4	1 13/32	7/8	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GSI-2022-16	1 1/4	1 13/32	1	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GSI-2022-20	1 1/4	1 13/32	1 1/4	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GSI-2022-24	1 1/4	1 13/32	1 1/2	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GSI-2224-16	1 3/8	1 17/32	1	1.3798	1.3758	1.5318	1.5308	1.3738	1.3722
GSI-2224-24	1 3/8	1 17/32	1 1/2	1.3798	1.3758	1.5318	1.5308	1.3738	1.3722
GSI-2224-26	1 3/8	1 17/32	1 5/8	1.3798	1.3758	1.5318	1.5308	1.3738	1.3722
GSI-2426-06	1 1/2	1 21/32	3/8	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
GSI-2426-07	1 1/2	1 21/32	7/16	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
GSI-2426-08	1 1/2	1 21/32	1/2	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
GSI-2426-12	1 1/2	1 21/32	3/4	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
GSI-2426-16	1 1/2	1 21/32	1	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
GSI-2426-24	1 1/2	1 21/32	1 1/2	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
GSI-2629-20	1 5/8	1 25/32	1 1/4	1.6297	1.6258	1.7818	1.7808	1.6238	1.6222
GSI-2831-16	1 3/4	1 15/16	1	1.7547	1.7505	1.9381	1.9371	1.7487	1.7471
GSI-2831-24	1 3/4	1 15/16	1 1/2	1.7547	1.7505	1.9381	1.9371	1.7487	1.7471
GSI-2831-32	1 3/4	1 15/16	2	1.7547	1.7505	1.9381	1.9371	1.7487	1.7471
GSI-2831-40	1 3/4	1 15/16	2 1/2	1.7547	1.7505	1.9381	1.9371	1.7487	1.7471
GSI-2831-48	1 3/4	1 15/16	3	1.7547	1.7505	1.9381	1.9371	1.7487	1.7471
GSI-3235-16	2	2 3/16	1	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
GSI-3235-24	2	2 3/16	1 1/2	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
GSI-3235-32	2	2 3/16	2	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
GSI-3639-32	2 1/4	2 7/16	2	2.2577	2.2531	2.4377	2.4365	2.2507	2.2489
GSI-4043-32	2 2/4	2 11/16	2	2.5082	2.5035	2.6881	2.6869	2.5000	2.4999
GSI-4447-32	2 3/4	2 15/16	2	2.7570	2.7523	2.9370	2.9358	2.7500	2.7490
GSI-4851-32	3	3 3/16	2	3.0070	3.0023	3.1870	3.1858	3.0000	2.9990

* after pressfit. Testing methods ▶ page 45

Flange Bearing



r = max. 0.5 mm

Order key

GFI-0203-02

- Length b1
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form F)
- Material iglidur® G

Chamfer in relation to the d1

d1 [Inch]:	Ø 0.040–0.236	Ø 0.236–0.472	Ø 0.472–1.18	Ø > 1.18
f [Inch]:	0.012	0.019	0.031	0.047

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing Bore		Shaft Size	
						max.	min.	max.	min.	max.	min.
GFI-0203-02	1/8	3/16	1/8	.312	.032	.1269	.1251	.1878	.1873	.1243	.1236
GFI-0203-03	1/8	3/16	3/16	.312	.032	.1269	.1251	.1878	.1873	.1243	.1236
GFI-0203-04	1/8	3/16	1/4	.312	.032	.1269	.1251	.1878	.1873	.1243	.1236
GFI-0203-06	1/8	3/16	3/8	.312	.032	.1269	.1251	.1878	.1873	.1243	.1236
GFI-0304-04	3/16	1/4	1/4	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
GFI-0304-06	3/16	1/4	3/8	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
GFI-0304-08	3/16	1/4	1/2	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
GFI-0405-04	1/4	5/16	1/4	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
GFI-0405-05	1/4	5/16	5/16	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
GFI-0405-06	1/4	5/16	3/8	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
GFI-0405-08	1/4	5/16	1/2	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
GFI-0405-12	1/4	5/16	3/4	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
GFI-0506-04	5/16	3/8	1/4	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
GFI-0506-06	5/16	3/8	3/8	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
GFI-0506-08	5/16	3/8	1/2	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
GFI-0506-12	5/16	3/8	3/4	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
GFI-0607-04	3/8	15/32	1/4	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
GFI-0607-05	3/8	15/32	5/16	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
GFI-0607-06	3/8	15/32	3/8	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
GFI-0607-08	3/8	15/32	1/2	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
GFI-0607-12	3/8	15/32	3/4	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
GFI-0607-14	3/8	15/32	7/8	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
GFI-0708-04	7/16	17/32	1/4	.750	.046	.4406	.4379	.5316	.5309	.4365	.4355
GFI-0708-08	7/16	17/32	1/2	.750	.046	.4406	.4379	.5316	.5309	.4365	.4355
GFI-0809-04	1/2	19/32	1/4	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online www.igus.eu/eu/g

Flange Bearing

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing Bore		Shaft Size	
						max.	min.	max.	min.	max.	min.
GFI-0809-05	1/2	19/32	5/16	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
GFI-0809-06	1/2	19/32	3/8	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
GFI-0809-08	1/2	19/32	1/2	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
GFI-0809-12	1/2	19/32	3/4	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
GFI-0809-16	1/2	19/32	1	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
GFI-1011-06	5/8	23/32	3/8	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
GFI-1011-08	5/8	23/32	1/2	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
GFI-1011-12	5/8	23/32	3/4	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
GFI-1011-14	5/8	23/32	7/8	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
GFI-1011-16	5/8	23/32	1	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
GFI-1011-24	5/8	23/32	1 1/2	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
GFI-1214-02	3/4	7/8	1/8	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
GFI-1214-06	3/4	7/8	3/8	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
GFI-1214-08	3/4	7/8	1/2	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
GFI-1214-10	3/4	7/8	5/8	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
GFI-1214-12	3/4	7/8	3/4	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
GFI-1214-16	3/4	7/8	1	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
GFI-1214-24	3/4	7/8	1 1/2	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
GFI-1416-08	7/8	1	1/2	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
GFI-1416-12	7/8	1	3/4	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
GFI-1416-16	7/8	1	1	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
GFI-1416-20	7/8	1	1 1/4	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
GFI-1416-24	7/8	1	1 1/2	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
GFI-1618-08	1	1 1/8	1/2	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GFI-1618-12	1	1 1/8	3/4	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GFI-1618-16	1	1 1/8	1	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GFI-1618-20	1	1 1/8	1 1/4	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GFI-1618-24	1	1 1/8	1 1/2	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
GFI-1820-12	1 1/8	1 9/32	3/4	1.562	.078	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
GFI-1820-24	1 1/8	1 9/32	1 1/2	1.562	.078	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
GFI-2022-06	1 1/4	1 13/32	3/8	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GFI-2022-12	1 1/4	1 13/32	3/4	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GFI-2022-14	1 1/4	1 13/32	7/8	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GFI-2022-16	1 1/4	1 13/32	1	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GFI-2022-20	1 1/4	1 13/32	1 1/4	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GFI-2022-24	1 1/4	1 13/32	1 1/2	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
GFI-2224-16	1 3/8	1 17/32	1	1.875	.078	1.3798	1.3758	1.5318	1.5308	1.3738	1.3722
GFI-2426-12	1 1/2	1 21/32	3/4	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
GFI-2426-16	1 1/2	1 21/32	1	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
GFI-2426-24	1 1/2	1 21/32	1 1/2	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
GFI-2831-16	1 3/4	1 15/16	1	2.375	.093	1.7547	1.7505	1.9381	1.9371	1.7487	1.7471
GFI-2831-24	1 3/4	1 15/16	1 1/2	2.375	.093	1.7547	1.7505	1.9381	1.9371	1.7487	1.7471

* after pressfit. Testing methods ▶ page 45

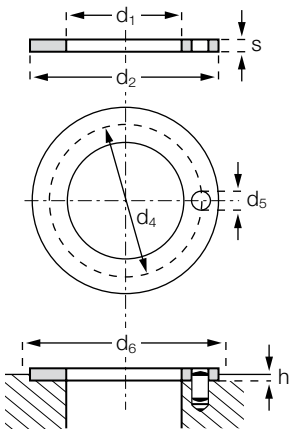
Flange Bearing

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing Bore		Shaft Size	
						max.	min.	max.	min.	max.	min.
GFI-2831-32	1 3/4	1 15/16	2	2.375	.093	1.7547	1.7505	1.9381	1.9371	1.7487	1.7471
GFI-3235-16	2	2 3/16	1	2.625	.093	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
GFI-3235-24	2	2 3/16	1 1/2	2.625	.093	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
GFI-3235-32	2	2 3/16	2	2.625	.093	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
GFI-3639-32	2 1/4	2 7/16	2	2.750	.093	2.2577	2.2531	2.4377	2.4365	2.2507	2.2489
GFI-4043-32	2 1/2	2 11/16	2	3.125	.093	2.5082	2.5035	2.6881	2.6869	2.5000	2.4999
GFI-4447-32	2 3/4	2 15/16	2	3.375	.093	27570	2.7523	2.9370	2.9358	2.7500	2.7490

* after pressfit. Testing methods ▶ page 45

Thrust Washer



Order key

GTI-0814-01

- Thickness s
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form T)
- Material iglidur® G

Dimensions according to ISO 3547-1 and special dimensions

Dimensions [Inch]

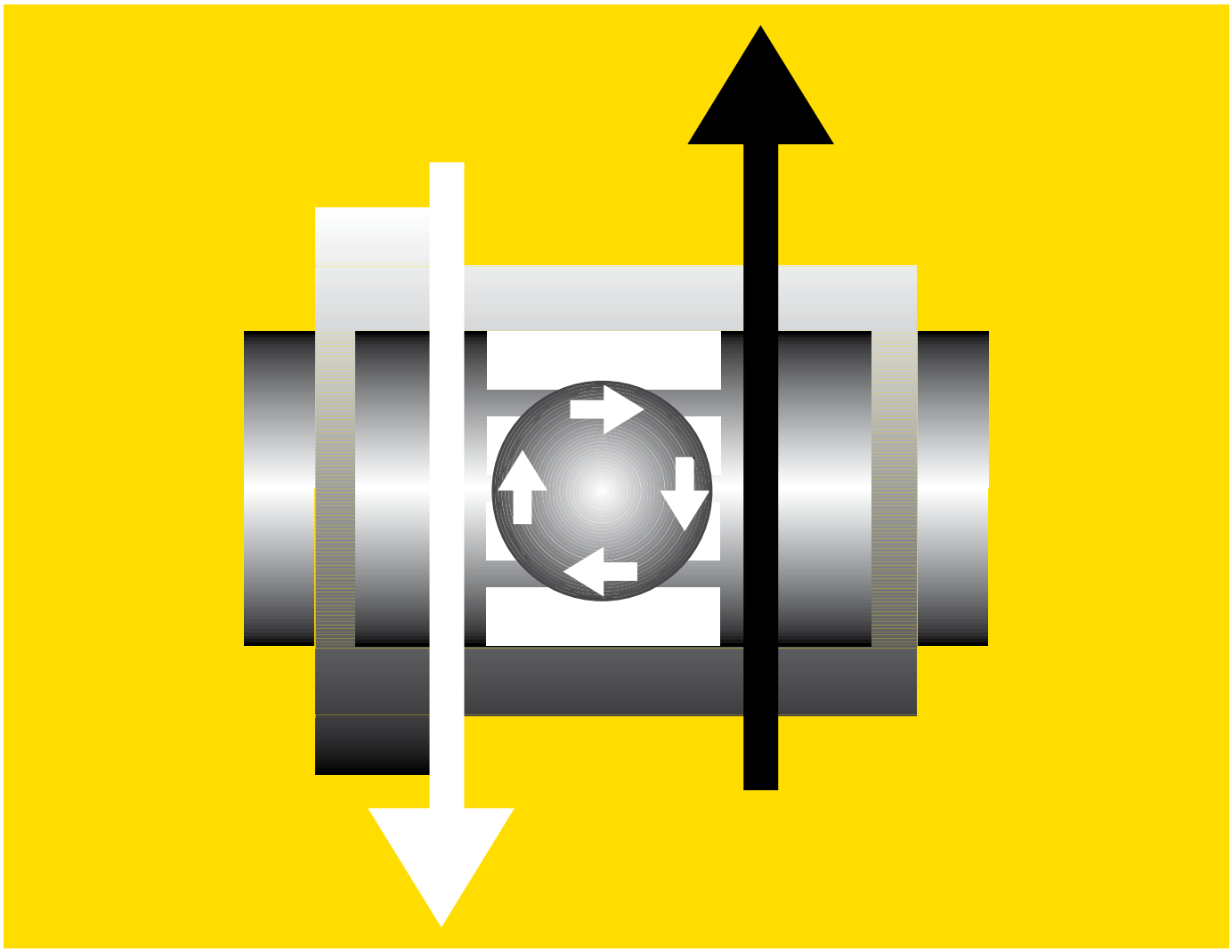
Part number	d1	d2	s	d4	d5	h	d6
	+.010	-.010	-.0020	±.005	.015 + .005	+.008	+.005
GTI-0814-01	.500	.875	.0585	.692	.067	.040	.875
GTI-1018-01	.625	1.125	.0585	.880	.099	.040	1,125
GTI-1220-01	.750	1.250	.0585	1,005	.099	.040	1,250
GTI-1424-01	.875	1.500	.0585	1,192	.130	.040	1,500
GTI-1628-01	1.000	1.750	.0585	1,380	.130	.040	1,750
GTI-2034-01	1.250	2.125	.0585	1,692	.161	.040	2,125
GTI-2440-01	1.500	2.500	.0585	2,005	.192	.040	2,500
GTI-2844-01	1.750	2.750	.0585	2,255	.192	.040	2,750
GTI-3248-01	2.000	3.000	.0895	2,505	.192	.070	3,000

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online www.igus.eu/eu/g

My Sketches



iglidur® J – The Fast and Slow Motion Specialist: used in long-life applications, also with soft shafts

- Over 250 sizes available from stock
- Low wear against different shaft materials
- Low coefficients of friction running dry
- Vibration dampening
- Good chemical resistance
- Best material to use with soft shaft materials
- Low moisture absorption

iglidur® J | The Fast and Slow Motion Specialist

Used in long-life applications, also with soft shafts. The iglidur® J plain bearings are designed for the lowest coefficients of friction while running dry and low stick slip tendency. With a maximum permissible surface pressure of 35 MPa iglidur® J plain bearings are not suitable for extreme loads.

Low wear against different shaft materials

Low coefficients of friction running dry

Vibration dampening

Good chemical resistance

Best material to use with soft shaft materials

Low moisture absorption

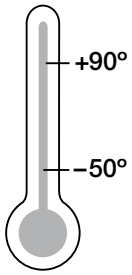
When to use it?

- For high speeds
- For highest wear resistance at low to medium pressures
- Low wear against different shafts
- Low coeffficient of friction in dry run
- Vibration dampening
- Good chemical resistance
- Best perfomance with soft shaft materials
- Low moisture absorption

When not to use it?

- When high pressures occur
  ▶ iglidur® G, page 51
  ▶ iglidur® W300, page 121
- When short term temperatures occur that are greater +120 °C
  ▶ iglidur® G, page 51
  ▶ iglidur® Z, page 289
- When a low-cost bearing for occasional movements is necessary
  ▶ iglidur® G, page 51

Temperature



Product range

3 types
> 250 dimensions
Ø 2–100 mm

iglidur® J | Application Examples

Typical sectors of industry and application areas

● Automation ● Printing industry ● Beverage technology ● Aerospace engineering ● Cleanroom etc.

Improve technology and reduce costs – 310 exciting examples for iglidur® plain bearings online

▶ **www.igus.eu/iglidur-applications**

▶ **www.igus.eu/mountainbike**

▶ **www.igus.eu/powderpress**

▶ **www.igus.eu/pullback-star**

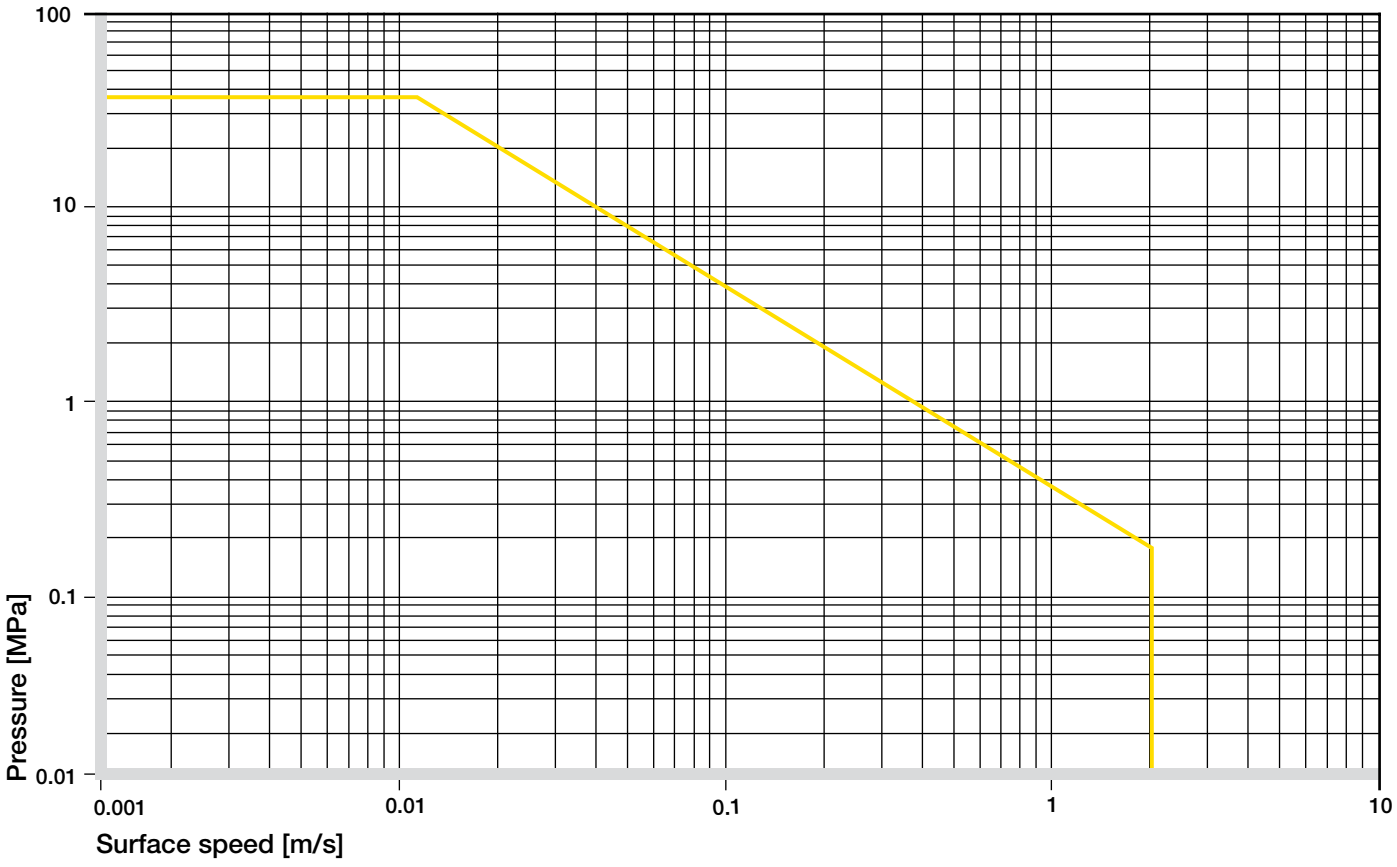
▶ **www.igus.eu/sawmill**

iglidur® J | Technical Data

Material table

General properties	Unit	iglidur® J	Testing method
Density	g/cm³	1.49	
Colour		yellow	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.3	DIN 53495
Max. moisture absorption	% weight	1.3	
Coefficient of sliding friction, dynamic against steel	µ	0.06–0.18	
pv value, max. (dry)	MPa · m/s	0.34	
Mechanical properties			
Modulus of elasticity	MPa	2,400	DIN 53457
Tensile strength at +20 °C	MPa	73	DIN 53452
Compressive strength	MPa	60	
Max. static surface pressure (+20 °C)	MPa	35	
Shore D hardness		74	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+90	
Max. short term application temperature	°C	+120	
Min. application temperature	°C	–50	
Thermal conductivity	W/m · K	0,25	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	$K^{-1} \cdot 10^{-5}$	10	DIN 53752
Electrical properties			
Specific volume resistance	Ωcm	> 10^{13}	DIN IEC 93
Surface resistance	Ω	> 10^{12}	DIN 53482

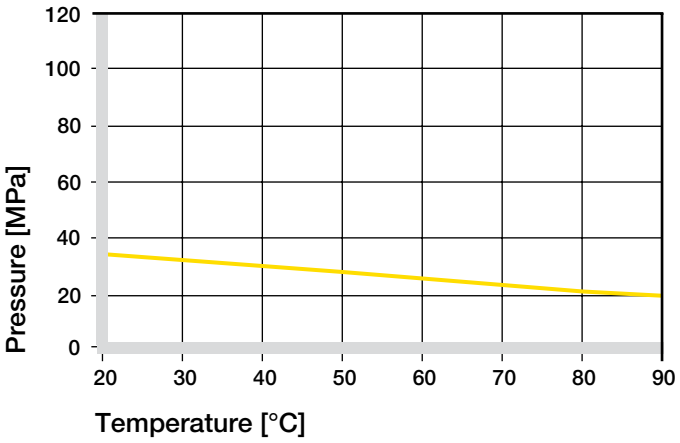
Table 01: Material data



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

Mechanical Properties

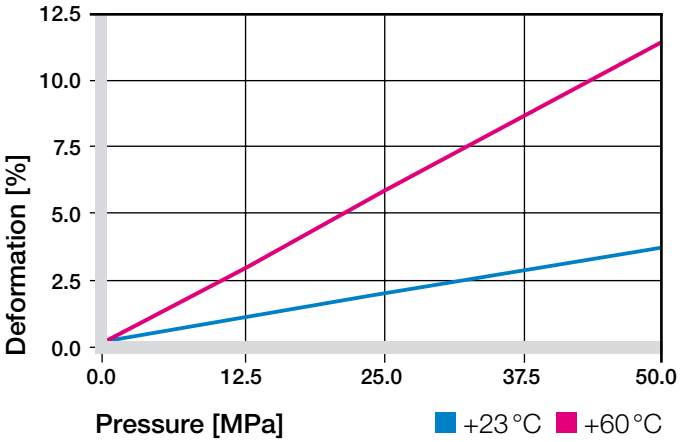
The recommended maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this. With increasing temperatures, the compressive strength of iglidur® J plain bearings decreases. The Graph 02 shows this inverse relationship. However, at the longterm maximum temperature of +90 °C the permissible surface pressure is almost 20 MPa.



Graph 02: Recommended maximum surface pressure as a function of temperature (35 MPa at +20 °C)

One main advantage of iglidur® J plain bearings is the combination of a low coefficient of friction when running dry, the low stickslip tendency, and the excellent wear rate at low pressure. With a recommended maximum surface pressure of 35 MPa, iglidur® J plain bearings are not suitable for extreme loads. Graph 03 shows the elastic deformation of iglidur® J for radial loads. At the recommended maximum surface pressure of 35 MPa the deformation is less than 2.5 %.

▶ Surface Pressure, **page 33**



Graph 03: Deformation under pressure and temperature

Permissible Surface Speeds

The low coefficient of friction and the extremely low stick slip tendency of iglidur® J plain bearings are especially important at very low speeds. However, iglidur® J material can also be used for high speeds of over 1 m/s. In both cases the static friction is very low and stick slip does not occur.
The maximum values given in Table 02 can only be achieved at the lowest pressure loads. At the given speeds, friction can cause a temperature increase to maximum permissible levels. In practice, though, this temperature level is rarely reached, due to varying application conditions.

▶ Surface Speed, **page 35**

m/s	Rotating	Oscillating	Linear
Continuous	1.5	1.1	8
Short term	3	1.1	10

Table 02: Maximum surface speeds

Temperatures

iglidur® J plain bearings can be used between –50 °C and +90 °C; the short-term maximum permissible temperature is +120 °C. Also, the wear increases significantly above +80 °C.

▶ Application Temperatures, **page 36**

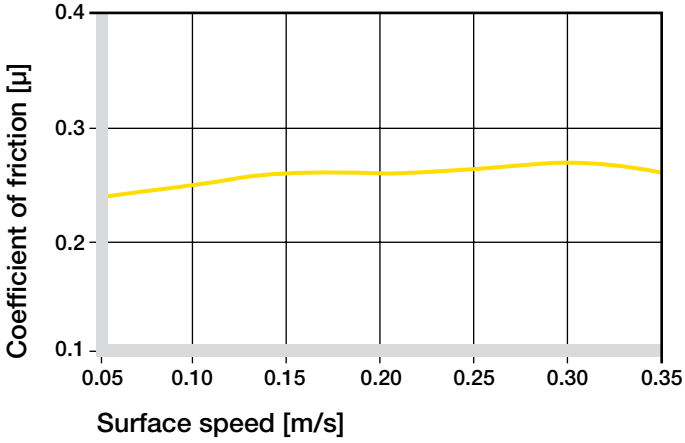
iglidur® J	Application temperature
Minimum	–50 °C
Max., long term	+90 °C
Max., short term	+120 °C
Add. securing is required from	+60 °C

Table 03: Temperature limits

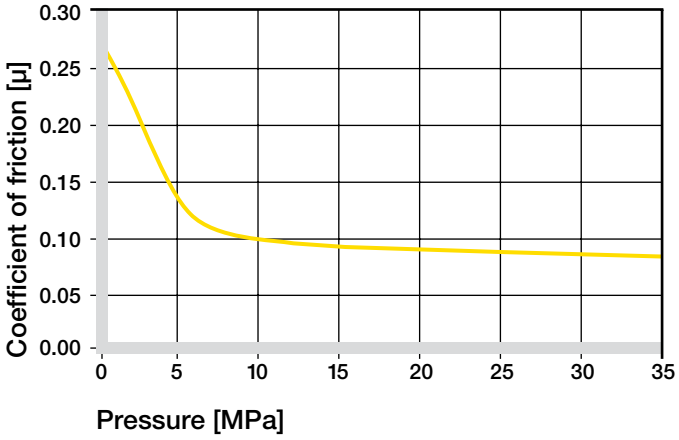
Friction and Wear

Similar to wear resistance, the coefficient of friction μ also changes with the load. Graph 05 shows the coefficients of friction for different loads. The level of the coefficient of friction is very good for all loads with iglidur® J.

▶ Coefficients of Friction and Surfaces, **page 38**
▶ Wear Resistance, **page 39**



Graph 04: Coefficient of friction as a function of the running speed, p = 0.75 MPa



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

Shaft Materials

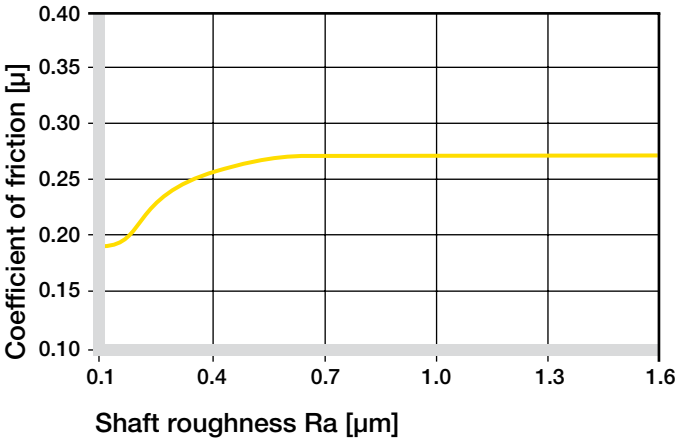
Friction and wear are also dependent, to a large extent, on the shaft material. With increasing shaft roughness, the coefficient of friction also increases. The best case is a ground surface with an average roughness Ra = 0.1–0.3 μm (Graph 06).

Graphs 07 to 09 show results of testing different shaft materials with plain bearings made of iglidur® J.

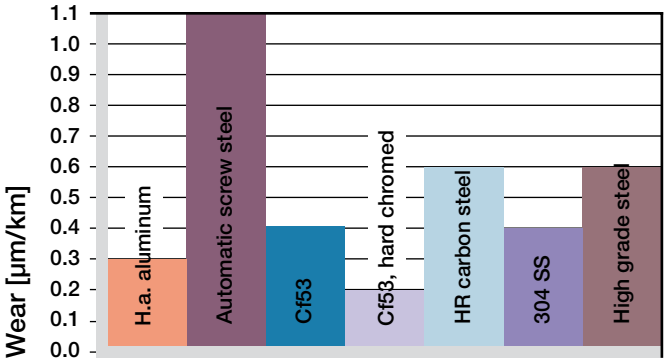
If iglidur® J plain bearings are used in rotational applications with pressures under 2 MPa, several shaft materials are suitable. A Hard Chromed shaft provides the lowest wear in this range. When compared to most iglidur® materials, iglidur® J has very low wear results at low loads compared with all shaft materials tested. Also, for increasing pressures up to 5 MPa, the wear resistance of iglidur® J is excellent. Especially suitable is the combination with 303 stainless steel.

In oscillating operation with Cf53 Steel and HR Carbon Steel, the wear of iglidur® J is slightly higher than for rotation. For oscillating movements with loads of 2 MPa, iglidur® J is best combined with Cf53 Steel shaft. As Graph 09 shows, the difference in wear between rotation and oscillating movements is most significant for 303 stainless steel shafts. If the shaft material you plan to use is not contained in this list, please contact us.

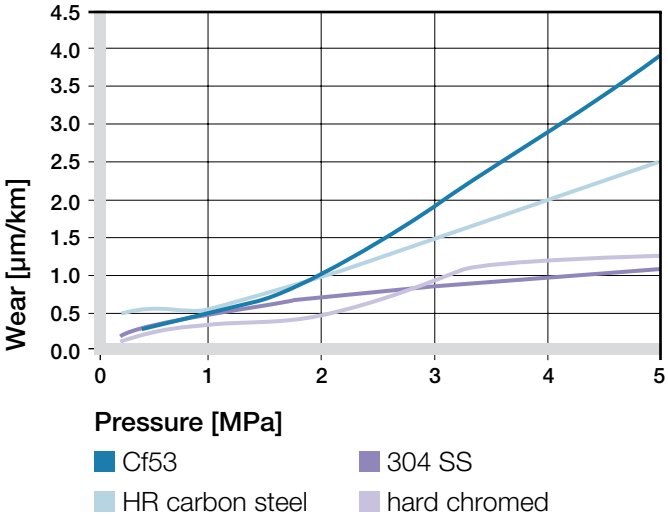
▶ Shaft Materials, **page 41**



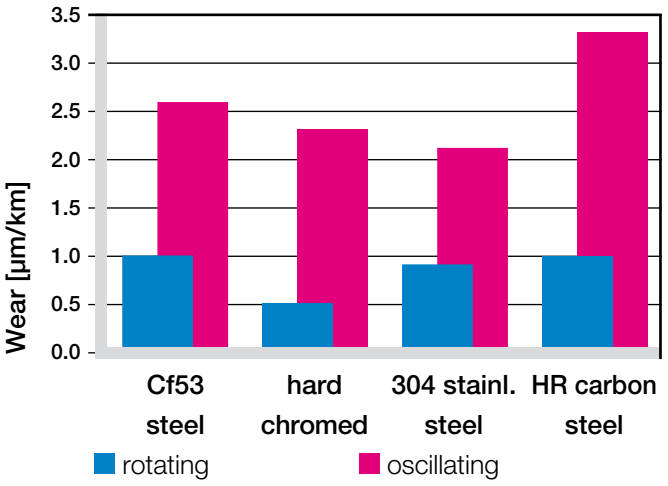
Graph 06: Coefficient of friction as function of the shaft surface (Cf53 hardened and ground steel)



Graph 07: Wear, rotating with different shaft materials, pressure p = 0.75 MPa, v = 0.5 m/s



Graph 08: Wear with different shaft materials in rotational operation, as a function of the pressure



Graph 09: Wear for rotating and oscillating applications with different shaft materials, p = 2 MPa

iglidur® J	Dry	Grease	Oil	Water
C.o.f. µ	0.06–0.18	0.09	0.04	0.04

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

Additional Properties

Chemical Resistance

iglidur® J plain bearings are resistant to diluted alkaline and very weak acids, as well as fuels and all types of lubricants. The low moisture absorption also permits use in wet or damp environments.

Plain bearings made of iglidur® J are resistant to common cleaning agents used in the food industry.

▶ Chemical Table, **page 974**

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

+ resistant 0 conditionally resistant – not resistant

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

Table 05: Chemical resistance

Radiation Resistance

Plain bearings made from iglidur® J are resistant to radiation up to an intensity of $3 \cdot 10^2$ Gy.

UV Resistance

iglidur® J plain bearings become discoloured under UV radiation. However, hardness, compressive strength and the wear resistance of the material do not change.

Vacuum

When used in a vacuum environment, the iglidur® J plain bearings release moisture as a vapour. Therefore, only dehumidified bearings are suitable in a vacuum environment.

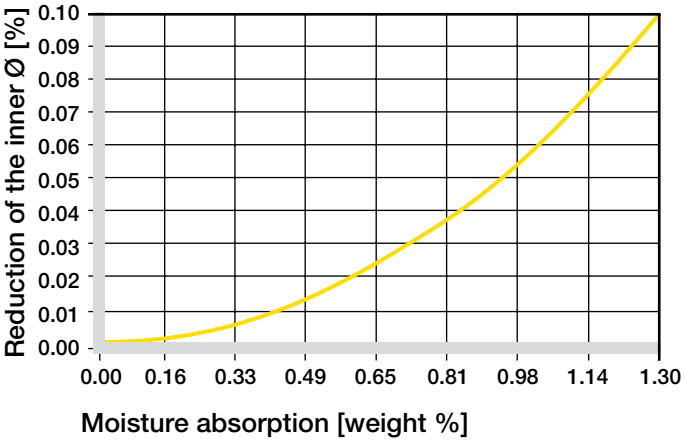
Electrical Properties

iglidur® J plain bearings are electrically insulating.

Specific volume resistance	> 10^{13} Ωcm
Surface resistance	> 10^{12} Ω 10

Moisture Absorption

The moisture absorption of iglidur® J plain bearings is 0.3 % in standard atmosphere. The saturation limit in water is 1.3 %. These values are so low that design changes due to absorption are only necessary in extreme cases.



Graph 10: Effect of moisture absorption on plain bearings

Maximum moisture absorption	
At +23 °C/50 % r.h.	0.3 % weight
Max. moisture absorbtion	1.3 % weight

Table 06: Moisture absorption

Installation Tolerances

iglidur® J plain bearings are meant to be oversized before pressfit. The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, the inner diameter adjusts to meet our specified tolerances.

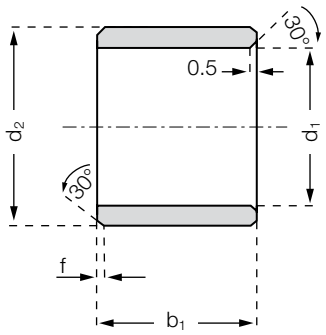
▶ Testing Methods, **page 45**

Diameter d1 [mm]	Shaft h9 [mm]	iglidur® J E10 [mm]	Housing H7 [mm]
up to 3	0–0.025	+0.014 +0.054	0 +0.010
> 3 to 6	0–0.030	+0.020 +0.068	0 +0.012
> 6 to 10	0–0.036	+0.025 +0.083	0 +0.015
> 10 to 18	0–0.043	+0.032 +0.102	0 +0.018
> 18 to 30	0–0.052	+0.040 +0.124	0 +0.021
> 30 to 50	0–0.062	+0.050 +0.150	0 +0.025
> 50 to 80	0–0.074	+0.060 +0.180	0 +0.030
> 80 to 120	0–0.087	+0.072 +0.212	0 +0.035
> 120 to 180	0–0.100	+0.085 +0.245	0 +0.040

Table 07: Essential tolerances for plain bearings according to ISO 3547-1 after pressfit

iglidur® J | Product Range

Sleeve bearing



Order key

JSM-0104-02

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form S)
- Material iglidur® J

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
JSM-0104-02	1.5	+0.014 +0.054	4.0	2.0
JSM-0203-07	2.0	+0.014 +0.054	3.5	7.0
JSM-0205-02	2.0	+0.020 +0.080	5.0	2.5
JSM-0206-02	2.5	+0.020 +0.080	6.0	2.5
JSM-0304-05	3.0	+0.014 +0.054	4.5	5.0
JSM-0304-09	3.0	+0.014 +0.054	4.5	9.0
JSM-0305-04	3.0	+0.020 +0.080	5.0	4.0
JSM-0308-04	3.0	+0.020 +0.080	8.0	4.0
JSM-0308-05	3.0	+0.020 +0.080	8.0	5.0
JSM-0405-04	4.0	+0.020 +0.068	5.5	4.0
JSM-0405-08	4.0	+0.020 +0.068	5.5	8.0
JSM-0507-046	5.0	+0.020 +0.068	7.0	4.6
JSM-0507-05	5.0	+0.020 +0.068	7.0	5.0
JSM-0507-10	5.0	+0.020 +0.068	7.0	10.0
JSM-0507-15	5.0	+0.020 +0.080	7.0	15.0
JSM-0607-08	6.0	+0.010 +0.058	7.0	8.0
JSM-0607-12.5	6.0	+0.010 +0.058	7.0	12.5
JSM-0607-14	6.0	+0.010 +0.058	7.0	14.0
JSM-0608-043	6.0	+0.020 +0.068	8.0	4.3
JSM-0608-06	6.0	+0.020 +0.068	8.0	6.0
JSM-0608-08	6.0	+0.020 +0.068	8.0	8.0
JSM-0608-10	6.0	+0.020 +0.068	8.0	10.0
JSM-0609-06	6.0	+0.030 +0.105	9.0	6.0
JSM-0610-10	6.0	+0.030 +0.105	10.0	10.0
JSM-0709-09	7.0	+0.025 +0.083	9.0	9.0

Part number	d1	d1-Tolerance*	d2	b1 h13
JSM-0810-04	8.0	+0.025 +0.083	10.0	4.0
JSM-0810-06	8.0	+0.025 +0.083	10.0	6.0
JSM-0810-08	8.0	+0.025 +0.083	10.0	8.0
JSM-0810-10	8.0	+0.025 +0.083	10.0	10.0
JSM-0810-12	8.0	+0.025 +0.083	10.0	12.0
JSM-0810-16	8.0	+0.025 +0.083	10.0	16.0
JSM-0812-10	8.0	+0.040 +0.130	12.0	10.0
JSM-0812-12	8.0	+0.040 +0.130	12.0	12.0
JSM-1012-05	10.0	+0.025 +0.083	12.0	5.0
JSM-1012-06	10.0	+0.025 +0.083	12.0	6.0
JSM-1012-08	10.0	+0.025 +0.083	12.0	8.0
JSM-1012-10	10.0	+0.025 +0.083	12.0	10.0
JSM-1012-11	10.0	+0.025 +0.083	12.0	11.0
JSM-1012-12	10.0	+0.025 +0.083	12.0	12.0
JSM-1012-15	10.0	+0.025 +0.083	12.0	15.0
JSM-1012-20	10.0	+0.025 +0.083	12.0	20.0
JSM-1014-10	10.0	+0.040 +0.130	14.0	10.0
JSM-1014-16	10.0	+0.040 +0.130	14.0	16.0
JSM-1214-06	12.0	+0.032 +0.102	14.0	6.0
JSM-1214-08	12.0	+0.032 +0.102	14.0	8.0
JSM-1214-09	12.0	+0.032 +0.102	14.0	9.0
JSM-1214-10	12.0	+0.032 +0.102	14.0	10.0
JSM-1214-15	12.0	+0.032 +0.102	14.0	15.0
JSM-1214-20	12.0	+0.032 +0.102	14.0	20.0
JSM-1216-12	12.0	+0.050 +0.160	16.0	12.0

* after pressfit. Testing methods ▶ page 45

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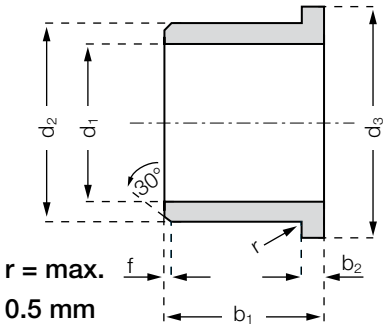
Sleeve bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
JSM-1216-17	12.0	+0.050 +0.160	16.0	17.0
JSM-1416-05	14.0	+0.032 +0.102	16.0	5.0
JSM-1416-08	14.0	+0.032 +0.102	16.0	8.0
JSM-1416-10	14.0	+0.032 +0.102	16.0	10.0
JSM-1416-15	14.0	+0.032 +0.102	16.0	15.0
JSM-1416-20	14.0	+0.032 +0.102	16.0	20.0
JSM-1416-25	14.0	+0.032 +0.102	16.0	25.0
JSM-1418-18	14.0	+0.032 +0.102	18.0	18.0
JSM-1517-12	15.0	+0.032 +0.102	17.0	12.0
JSM-1517-20	15.0	+0.032 +0.102	17.0	20.0
JSM-1618-10	16.0	+0.032 +0.102	18.0	10.0
JSM-1618-12	16.0	+0.032 +0.102	18.0	12.0
JSM-1618-15	16.0	+0.032 +0.102	18.0	15.0
JSM-1618-20	16.0	+0.032 +0.102	18.0	20.0
JSM-1620-16	16.0	+0.050 +0.160	20.0	16.0
JSM-1622-16	16.0	+0.050 +0.160	22.0	16.0
JSM-1622-20	16.0	+0.050 +0.160	22.0	20.0
JSM-1820-15	18.0	+0.032 +0.102	20.0	15.0
JSM-1820-20	18.0	+0.032 +0.102	20.0	20.0
JSM-1922-14	19.0	+0.032 +0.102	22.0	14.0
JSM-2022-20	20.0	+0.040 +0.124	22.0	20.0
JSM-2022-30	20.0	+0.040 +0.124	22.0	30.0
JSM-2023-15	20.0	+0.040 +0.124	23.0	15.0
JSM-2023-20	20.0	+0.040 +0.124	23.0	20.0
JSM-2026-06	20.0	+0.065 +0.195	26.0	6.0
JSM-2026-20	20.0	+0.065 +0.195	26.0	20.0
JSM-2026-25	20.0	+0.065 +0.195	26.0	25.0
JSM-2026-30	20.0	+0.065 +0.195	26.0	30.0
JSM-2427-25	24.0	+0.040 +0.124	27.0	25.0
JSM-2427-46	24.0	+0.040 +0.124	27.0	46.0
JSM-2528-12	25.0	+0.040 +0.124	28.0	12.0
JSM-2528-20	25.0	+0.040 +0.124	28.0	20.0
JSM-2528-30	25.0	+0.040 +0.124	28.0	30.0
JSM-2532-25	25.0	+0.065 +0.195	32.0	25.0
JSM-2532-32	25.0	+0.065 +0.195	32.0	32.0
JSM-2532-35	25.0	+0.065 +0.195	32.0	35.0
JSM-2630-20	26.0	+0.065 +0.195	30.0	20.0
JSM-3034-20	30.0	+0.040 +0.124	34.0	20.0
JSM-3034-25	30.0	+0.040 +0.124	34.0	25.0
JSM-3034-30	30.0	+0.040 +0.124	34.0	30.0
JSM-3038-40	30.0	+0.065 +0.195	38.0	40.0
JSM-3236-20	32.0	+0.050 +0.150	36.0	20.0
JSM-3236-30	32.0	+0.050 +0.150	36.0	30.0
JSM-3236-40	32.0	+0.050 +0.150	36.0	40.0
JSM-3539-20	35.0	+0.050 +0.150	39.0	20.0
JSM-3539-30	35.0	+0.050 +0.150	39.0	30.0
JSM-3539-40	35.0	+0.050 +0.150	39.0	40.0
JSM-3640-45	36.0	+0.050 +0.150	40.0	45.0
JSM-4044-30	40.0	+0.050 +0.150	44.0	30.0
JSM-4044-35	40.0	+0.050 +0.150	44.0	35.0
JSM-4044-40	40.0	+0.050 +0.150	44.0	40.0
JSM-4246-73	42.0	+0.080 +0.240	46.0	73.0
JSM-5055-30	50.0	+0.050 +0.150	55.0	30.0
JSM-5055-50	50.0	+0.050 +0.150	55.0	50.0
JSM-5560-60	55.0	+0.060 +0.180	60.0	60.0
JSM-6065-60	60.0	+0.060 +0.180	65.0	60.0
JSM-7580-60	75.0	+0.060 +0.180	80.0	60.0
JSM-8085-100	80.0	+0.060 +0.180	85.0	100.0
JSM-8086-60	80.0	+0.060 +0.180	86.0	60.0
JSM-100105-100	100.0	+0.072 +0.212	105.0	100.0
JSM-110115-60	110.0	+0.072 +0.212	115.0	60.0

* after pressfit. Testing methods ▶ page 45

Flange bearing



r = max. 0.5 mm

Order key

JFM-0304-05

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form F)
- Material iglidur® J

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
JFM-0304-05	3.0	+0.014 +0.054	4.5	7.5	5.0	0.75
JFM-0306-10	3.0	+0.020 +0.080	6.0	9.0	10.0	1.5
JFM-0405-03	4.0	+0.020 +0.068	5.5	9.5	3.0	0.75
JFM-0405-06	4.0	+0.020 +0.068	5.5	9.5	6.0	0.75
JFM-0506-05	5.0	+0.020 +0.068	6.0	10.	5.0	0.5
JFM-0507-05	5.0	+0.020 +0.068	7.0	11.0	5.0	1.0
JFM-0608-04	6.0	+0.020 +0.068	8.0	12.0	4.0	1.0
JFM-0608-06	6.0	+0.020 +0.068	8.0	12.0	6.0	1.0
JFM-0608-08	6.0	+0.020 +0.068	8.0	12.0	8.0	1.0
JFM-0608-10	6.0	+0.020 +0.068	8.0	12.0	10.0	1.0
JFM-0610-10	6.0	+0.030 +0.105	10.0	14.0	10.0	2.0
JFM-0810-038	8.0	+0.025 +0.083	10.0	15.0	3.8	1.0
JFM-0810-05	8.0	+0.025 +0.083	10.0	15.0	5.0	1.0
JFM-0810-06	8.0	+0.025 +0.083	10.0	15.0	6.0	1.0
JFM-0810-07	8.0	+0.025 +0.083	10.0	15.0	7.0	1.0
JFM-0810-08	8.0	+0.025 +0.083	10.0	15.0	8.0	1.0
JFM-0810-10	8.0	+0.025 +0.083	10.0	15.0	10.0	1.0
JFM-0810125-10	8.0	+0.025 +0.083	10.0	12.5	10.0	1.0
JFM-081014-10	8.0	+0.025 +0.083	10.0	14.0	10.0	1.0
JFM-081016-11	8.0	+0.025 +0.083	10.0	16.0	11.0	2.0
JFM-0812-06	8.0	+0.025 +0.083	12.0	16.0	6.0	2.0
JFM-1012-05	10.0	+0.025 +0.083	12.0	18.0	5.0	1.0
JFM-1012-09	10.0	+0.025 +0.083	12.0	18.0	9.0	1.0
JFM-1012-10	10.0	+0.025 +0.083	12.0	18.0	10.0	1.0
JFM-1012-12	10.0	+0.025 +0.083	12.0	18.0	12.0	1.0

* after pressfit. Testing methods ▶ page 45

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Flange bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
JFM-1012-15	10.0	+0.025 +0.083	12.0	18.0	15.0	1.0
JFM-1012-18	10.0	+0.025 +0.083	12.0	18.0	18.0	1.0
JFM-101215-035	10.0	+0.025 +0.083	12.0	15.0	3.5	1.0
JFM-1014-14	10.0	+0.025 +0.083	14.0	18.0	14.0	1.0
JFM-1113-05	11.0	+0.032 +0.102	13.0	18.0	5.0	1.0
JFM-1214-05	12.0	+0.032 +0.102	14.0	20.0	5.0	1.0
JFM-1214-07	12.0	+0.032 +0.102	14.0	20.0	7.0	1.0
JFM-1214-09	12.0	+0.032 +0.102	14.0	20.0	9.0	1.0
JFM-1214-12	12.0	+0.032 +0.102	14.0	20.0	12.0	1.0
JFM-1214-15	12.0	+0.032 +0.102	14.0	20.0	15.0	1.0
JFM-121418-045	12.0	+0.032 +0.102	14.0	18.0	4.5	1.0
JFM-121418-10	12.0	+0.032 +0.102	14.0	18.0	10.0	1.0
JFM-1218-08	12.0	+0.050 +0.160	18.0	24.0	8.0	3.0
JFM-1218-12	12.0	+0.050 +0.160	18.0	24.0	12.0	3.0
JFM-1218-20	12.0	+0.050 +0.160	18.0	22.0	20.0	3.0
JFM-1416-03	14.0	+0.032 +0.102	16.0	22.0	3.0	1.0
JFM-1416-10	14.0	+0.032 +0.102	16.0	22.0	10.0	1.0
JFM-1416-12	14.0	+0.032 +0.102	16.0	22.0	12.0	1.0
JFM-1416-17	14.0	+0.032 +0.102	16.0	22.0	17.0	1.0
JFM-141822-20	14.0	+0.032 +0.102	18.0	22.0	20.0	2.0
JFM-1517-09	15.0	+0.032 +0.102	17.0	23.0	9.0	1.0
JFM-1517-12	15.0	+0.032 +0.102	17.0	23.0	12.0	1.0
JFM-1517-17	15.0	+0.032 +0.102	17.0	23.0	17.0	1.0
JFM-1521-20	15.0	+0.050 +0.160	21.0	27.0	20.0	3.0
JFM-1618-16	16.0	+0.032 +0.102	18.0	24.0	16.0	1.0
JFM-1618-17	16.0	+0.032 +0.102	18.0	24.0	17.0	1.0
JFM-1622-12	16.0	+0.050 +0.160	22.0	28.0	12.0	3.0
JFM-1622-15	16.0	+0.050 +0.160	22.0	28.0	15.0	3.0
JFM-1719-09	17.0	+0.032 +0.102	19.0	25.0	9.0	1.0
JFM-1719-21	17.0	+0.032 +0.102	19.0	25.0	21.0	1.0
JFM-1820-04	18.0	+0.032 +0.102	20.0	26.0	4.0	1.0
JFM-1820-12	18.0	+0.032 +0.102	20.0	26.0	12.0	1.0
JFM-1820-22	18.0	+0.032 +0.102	20.0	26.0	22.0	1.0
JFM-1922-36	19.0	+0.032 +0.102	22.0	26.0	36.0	1.0
JFM-2023-11	20.0	+0.040 +0.124	23.0	30.0	11.5	1.5
JFM-2023-15.5	20.0	+0.040 +0.124	23.0	30.0	15.5	1.5
JFM-2023-21	20.0	+0.040 +0.124	23.0	30.0	21.5	1.5
JFM-202530-15	20.0	+0.065 +0.195	25.0	30.0	15.0	2.0
JFM-2026-15	20.0	+0.065 +0.195	26.0	32.0	15.0	3.0
JFM-2026-20	20.0	+0.065 +0.195	26.0	32.0	20.0	3.0
JFM-2026-25	20.0	+0.065 +0.195	26.0	32.0	25.0	3.0
JFM-222532-08	22.0	+0.040 +0.124	25.0	32.0	8.0	1.5

* after pressfit. Testing methods ▶ page 45

Flange bearing

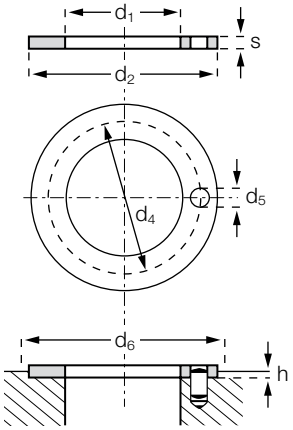
Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
JFM-2430-30	24.0	+0.040 +0.124	30.0	36.0	30.0	3.0
JFM-2528-06	25.0	+0.040 +0.124	28.0	35.0	6.0	1.5
JFM-2528-14.5	25.0	+0.040 +0.124	28.0	35.0	14.5	1.5
JFM-2528-21	25.0	+0.040 +0.124	28.0	35.0	21.5	1.5
JFM-252839-075	25.0	+0.040 +0.124	28.0	39.0	7.5	1.5
JFM-2532-20	25.0	+0.065 +0.195	32.0	38.0	20.0	4.0
JFM-2532-25	25.0	+0.065 +0.195	32.0	38.0	25.0	4.0
JFM-283235-07	28.0	+0.065 +0.195	32.0	35.0	7.0	2.0
JFM-3034-20	30.0	+0.040 +0.124	34.0	42.0	20.0	2.0
JFM-3034-26	30.0	+0.040 +0.124	34.0	42.0	26.0	2.0
JFM-3038-30	30.0	+0.065 +0.195	38.0	44.0	30.0	4.0
JFM-3539-12	35.0	+0.050 +0.150	39.0	47.0	12.0	2.0
JFM-3539-16	35.0	+0.050 +0.150	39.0	47.0	16.0	2.0
JFM-3539-26	35.0	+0.050 +0.150	39.0	47.0	26.0	2.0
JFM-4044-20	40.0	+0.050 +0.150	44.0	52.0	20.0	2.0
JFM-4044-30	40.0	+0.050 +0.150	44.0	52.0	30.0	2.0
JFM-4044-40	40.0	+0.050 +0.150	44.0	52.0	40.0	2.0
JFM-4550-20	45.0	+0.050 +0.150	50.0	58.0	20.0	2.0
JFM-4550-50	45.0	+0.050 +0.150	50.0	58.0	50.0	2.0
JFM-5055-50	50.0	+0.050 +0.150	55.0	63.0	50.0	2.0
JFM-5560-50	55.0	+0.060 +0.180	60.0	68.0	50.0	2.0
JFM-6065-50	60.0	+0.060 +0.180	65.0	73.0	50.0	2.0
JFM-7075-50	70.0	+0.060 +0.180	75.0	83.0	50.0	2.0
JFM-9095-100	90.0	+0.072 +0.212	95.0	108.0	100.0	2.5
JFM-110115-100	110.0	+0.072 +0.212	115.0	123.0	100.0	2.5

* after pressfit. Testing methods ▶ page 45

iglidur® J | Product Range

Thrust washer



Order key

JTM-1224-015

- Thickness s
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form T)
- Material iglidur® J

Dimensions according to ISO 3547-1 and special dimensions

Dimensions [mm]

Part number	d1 +0.25	d2 –0.25	s –0.05	d4 –0.12 +0.12	d5 +0.375 +0.125	h +0.2 –0.2	d6 +0.12
JTM-1224-015	12.0	24.0	1.5	18.0	1.5	1.0	24.0
JTM-2036-015	20.0	36.0	1.5	28.0	3.0	1.0	36.0
JTM-3039-015	30.0	39.0	1.5	**	**	1.0	39.0
JTM-5670-010	56.0	70.0	1.0	**	**	0.7	70.0
JTM-139188-020	139.0	188.0	2.0	**	**	1.5	188.0

** Design without fixing bore

delivery time from stock

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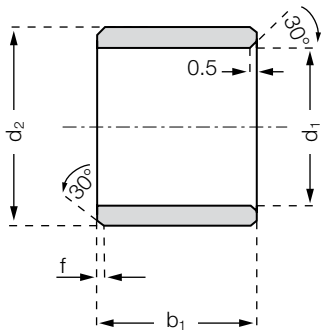
Sleeve bearing



Order key

JSI-0204-04

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form S)
- Material iglidur® J

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

d1 [Inch]:	Ø 0,040–0,236	Ø 0,236–0,472	Ø 0,472–1,18	Ø > 1,18
f [Inch]:	0.012	0.019	0.031	0.047

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing Bore		Shaft Size	
				max.	min.	max.	min.	max.	min.
JSI-0204-04	1/8	1/4	1/4	.1280	.1262	.2515	.2510	.1250	.1241
JSI-0204-06	1/8	1/4	3/8	.1280	.1262	.2515	.2510	.1250	.1241
JSI-0304-06	3/16	1/4	3/8	.1892	.1873	.2503	.2497	.1865	.1858
JSI-0304-08	3/16	1/4	1/2	.1892	.1873	.2503	.2497	.1865	.1858
JSI-0305-05	3/16	5/16	5/16	.1905	.1887	.3140	.3135	.1875	.1866
JSI-0305-06	3/16	5/16	3/8	.1905	.1887	.3140	.3135	.1875	.1866
JSI-0305-08	3/16	5/16	1/2	.1905	.1887	.3140	.3135	.1875	.1866
JSI-0405-04	1/4	5/16	1/4	.2521	.2498	.3128	.3122	.2490	.2481
JSI-0405-06	1/4	5/16	3/8	.2521	.2498	.3128	.3122	.2490	.2481
JSI-0405-08	1/4	5/16	1/2	.2521	.2498	.3128	.3122	.2490	.2481
JSI-0406-04	1/4	3/8	1/4	.2539	.2516	.3765	.3760	.2500	.2491
JSI-0406-08	1/4	3/8	1/2	.2539	.2516	.3765	.3760	.2500	.2491
JSI-0406-12	1/4	3/8	3/4	.2539	.2516	.3765	.3760	.2500	.2491
JSI-0406-16	1/4	3/8	1	.2539	.2516	.3765	.3760	.2500	.2491
JSI-0506-06	5/16	3/8	3/8	.3148	.3125	.3753	3747	.3115	.3106
JSI-0506-08	5/16	3/8	1/2	.3148	.3125	.3753	3747	.3115	.3106
JSI-0506-12	5/16	3/8	3/4	.3148	.3125	.3753	3747	.3115	.3106
JSI-0507-06	5/16	7/16	3/8	.3164	.3141	.4390	.4385	.3125	.3116
JSI-0507-08	5/16	7/16	1/2	.3164	.3141	.4390	.4385	.3125	.3116
JSI-0507-10	5/16	7/16	5/8	.3164	.3141	.4390	.4385	.3125	.3116
JSI-0607-06	3/8	15/32	3/8	.3773	.3750	.4691	.4684	.3740	.3731
JSI-0608-03	3/8	1/2	3/16	.3773	.3750	.4691	.4684	.3740	.3731
JSI-0608-06	3/8	1/2	3/8	.3773	.3750	.4691	.4684	.3740	.3731
JSI-0608-08	3/8	1/2	1/2	.3773	.3750	.4691	.4684	.3740	.3731
JSI-0608-10	3/8	1/2	5/8	.3773	.3750	.4691	.4684	.3740	.3731

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online www.igus.eu/eu/j

iglidur® J | Product Range | Inch

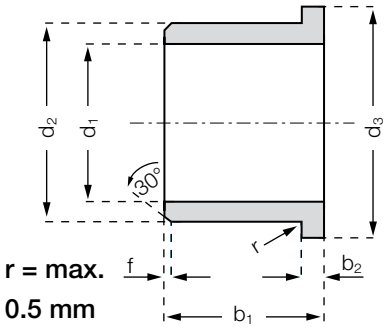
Sleeve bearing

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing Bore		Shaft Size	
				max.	min.	max.	min.	max.	min.
JSI-0809-06	1/2	19/32	3/8	.5030	.5003	.5941	.5934	.4990	.4980
JSI-0809-08	1/2	19/32	1/2	.5030	.5003	.5941	.5934	.4990	.4980
JSI-0809-12	1/2	19/32	3/4	.5030	.5003	.5941	.5934	.4990	.4980
JSI-0810-08	1/2	5/8	1/2	.5040	.5013	.6260	.6250	.5000	.4990
JSI-0810-12	1/2	5/8	3/4	.5040	.5013	.6260	.6250	.5000	.4990
JSI-1011-08	5/8	23/32	1/2	.6280	.6253	.7192	.7184	.6240	.6230
JSI-1011-12	5/8	23/32	3/4	.6280	.6253	.7192	.7184	.6240	.6230
JSI-1012-04	5/8	3/4	1/4	.6297	.6270	.7510	.7500	.6250	.6240
JSI-1012-06	5/8	3/4	3/8	.6297	.6270	.7510	.7500	.6250	.6240
JSI-1012-08	5/8	3/4	1/2	.6297	.6270	.7510	.7500	.6250	.6240
JSI-1012-12	5/8	3/4	3/4	.6297	.6270	.7510	.7500	.6250	.6240
JSI-1012-16	5/8	3/4	1	.6297	.6270	.7510	.7500	.6250	.6240
JSI-1214-08	3/4	7/8	1/2	.7541	.7505	.8755	.8747	.7491	.7479
JSI-1214-12	3/4	7/8	3/4	.7541	.7505	.8755	.8747	.7491	.7479
JSI-1214-16	3/4	7/8	1	.7541	.7505	.8755	.8747	.7491	.7479
JSI-1216-12	3/4	1	3/4	.7559	.7525	1.0010	1.000	.7500	.7490
JSI-1216-16	3/4	1	1	.7559	.7525	1.0010	1.000	.7500	.7490
JSI-1416-12	7/8	1	3/4	.8791	.8757	1.0005	.9997	.8741	.8729
JSI-1418-12	7/8	11/8	3/4	.8809	.8775	1.1260	1.1250	.8750	.8740
JSI-1418-24	7/8	11/8	11/2	.8809	.8775	1.1260	1.1250	.8750	.8740
JSI-1620-16	1	11/4	1	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
JSI-1620-24	1	11/4	11/2	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
JSI-1822-16	11/8	113/8	1	1.1327	1.1276	1.3760	1.3750	1.1250	1.1240
JSI-2022-14	11/4	113/32	7/8	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
JSI-2024-24	11/4	11/2	11/2	1.2600	1.2532	1.5005	1.4995	1.2500	1.2490
JSI-2428-24	11/2	13/4	11/2	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990

*** after pressfit. Testing methods ▶ page 45**

Flange bearing



r = max. 0.5 mm

Order key

JFI-0204-04

- Length b1
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form F)
- Material iglidur® G

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

d1 [Inch]:	Ø 0,040–0,236	Ø 0,236–0,472	Ø 0,472–1,18	Ø > 1,18
f [Inch]:	0.012	0.019	0.031	0.047

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing Bore		Shaft Size	
						max.	min.	max.	min.	max.	min.
JFI-0204-06	1/8	1/4	3/8	.360	.047	.1280	.1262	.2515	.2510	.1250	.1241
JFI-0304-02	3/16	1/4	1/8	.375	.032	.1905	.1887	.2515	.2510	.1875	.1866
JFI-0304-04	3/16	1/4	1/4	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
JFI-0304-06	3/16	1/4	3/8	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
JFI-0304-08	3/16	1/4	1/2	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
JFI-0305-06	3/16	5/16	3/8	.370	.047	.1905	.1887	.3140	.3135	.1875	.1866
JFI-0305-08	3/16	5/16	1/2	.370	.047	.1905	.1887	.3140	.3135	.1875	.1866
JFI-0405-04	1/4	5/16	1/4	.437	.032	.2521	.2498	.3128	.3122	.2490	.2481
JFI-0405-06	1/4	5/16	3/8	.437	.032	.2521	.2498	.3128	.3122	.2490	.2481
JFI-0405-12	1/4	5/16	3/4	.437	.032	.2521	.2498	.3128	.3122	.2490	.2481
JFI-0406-03	1/4	3/8	3/16	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491
JFI-0406-04	1/4	3/8	1/4	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491
JFI-0406-08	1/4	3/8	1/2	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491
JFI-0506-04	5/16	3/8	1/4	.500	.032	.3148	.3125	.3753	.3747	.3115	.3106
JFI-0506-06	5/16	3/8	3/8	.500	.032	.3148	.3125	.3753	.3747	.3115	.3106
JFI-0506-08	5/16	3/8	1/2	.500	.032	.3148	.3125	.3753	.3747	.3115	.3106
JFI-0507-08	5/16	7/16	1/2	.560	.062	.3164	.3141	.4390	.4385	.3125	.3116
JFI-0607-06	3/8	15/32	3/8	.687	.046	.3772	.3775	.4691	.4684	.3740	.3731
JFI-0608-03	3/8	1/2	3/16	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
JFI-0608-06	3/8	1/2	3/8	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
JFI-0608-08	3/8	1/2	1/2	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
JFI-0809-04	1/2	19/32	1/4	.875	.046	.5040	.5000	.5941	.5934	.4990	.4980
JFI-0809-06	1/2	19/32	3/8	.875	.046	.5040	.5000	.5941	.5934	.4990	.4980
JFI-0809-08	1/2	19/32	1/2	.875	.046	.5040	.5000	.5941	.5934	.4990	.4980
JFI-0810-04	1/2	5/8	1/4	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online www.igus.eu/eu/j

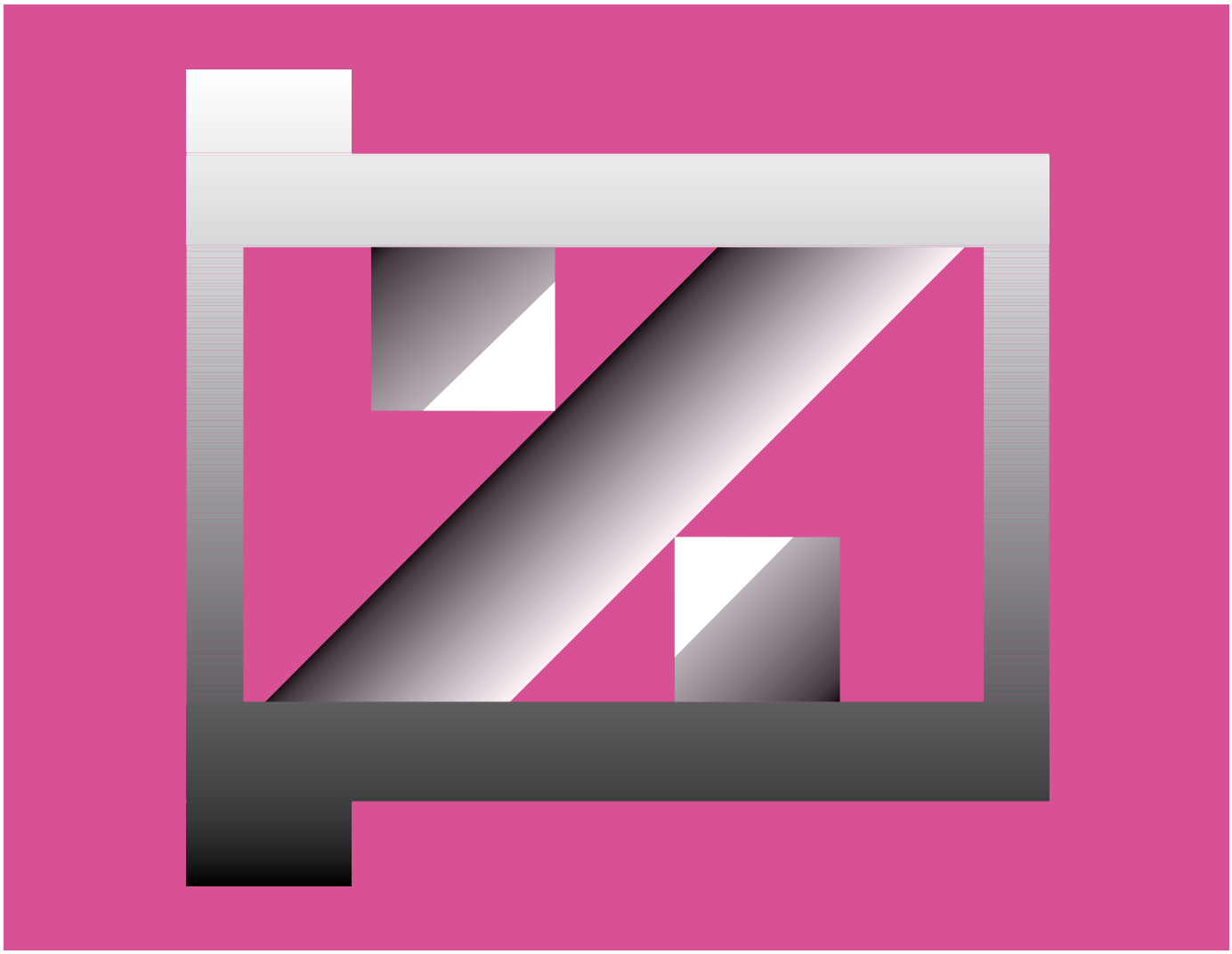
iglidur® J | Product Range | Inch

Flange bearing

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing Bore		Shaft Size	
						max.	min.	max.	min.	max.	min.
JFI-0810-08	1/2	5/8	1/2	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
JFI-0810-10	1/2	5/8	5/8	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
JFI-0810-12	1/2	5/8	3/4	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
JFI-1011-08	5/8	23/32	1/2	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
JFI-1011-12	5/8	23/32	3/4	1.000	.046	.6297	.6270	.7192	.7184	.6250	.6240
JFI-1012-08	5/8	3/4	1/2	1.000	.062	.6297	.6270	.7510	.7500	.6250	.6240
JFI-1012-12	5/8	3/4	3/4	1.000	.062	.6297	.6270	.7510	.7500	.6250	.6240
JFI-1012-16	5/8	3/4	1	1.000	.062	.6297	.6270	.7510	.7500	.6250	.6240
JFI-1214-08	3/4	7/8	1/2	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
JFI-1214-10	3/4	7/8	5/8	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
JFI-1214-12	3/4	7/8	3/4	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
JFI-1214-16	3/4	7/8	1	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
JFI-1216-12	3/4	1	3/4	1.250	.156	.7559	.7525	1.0010	1.0000	.7500	.7490
JFI-1216-16	3/4	1	1	1.250	.156	.7559	.7525	1.0010	1.0000	.7500	.7490
JFI-1416-12	7/8	1	3/4	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
JFI-141618-11	7/8	1	11/16	1.125	.062	.8809	.8776	1.0010	1.0000	.8750	.8740
JFI-1618-12	1	11/8	3/4	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
JFI-1618-16	1	11/8	1	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
JFI-1620-12	1	11/4	3/4	1.500	.188	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
JFI-1620-16	1	11/4	1	1.500	.188	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
JFI-1620-24	1	11/4	11/2	1.500	.188	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
JFI-2024-16	11/4	11/2	1	1.750	.188	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
JFI-2024-24	11/4	11/2	11/2	1.750	.188	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
JFI-2428-16	11/2	13/4	1	2.000	.125	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990
JFI-2428-24	11/2	13/4	11/2	2.000	.125	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990
JFI-2630-16	15/8	17/8	1	2.125	.125	1.6350	1.6882	1.8755	1.8745	1.6250	1.6240

* after pressfit. Testing methods ▶ page 45



iglidur® M250 – Thick and Tough: excellent vibration dampening

- Over 450 sizes available from stock
- Excellent vibration dampening
- Resistant to edge loading
- High impact resistance
- Thick walled according to DIN 1850
- Dirt can become embedded for shaft protection

iglidur® M250 | Thick and Tough

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

Excellent vibration dampening

Resistant to edge loading

High impact resistance

Thick walled according to DIN 1850

Dirt can become embedded for shaft protection

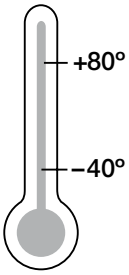
When to use it?

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

When not to use it?

- For applications in wet areas
  ▶ iglidur® H, page 315
- When very high precision is necessary
  ▶ iglidur® P, page 175
- For very smooth shafts
  ▶ iglidur® J, page 79
- When a cost-effective wear resistant bearing is desired
  ▶ iglidur® R, page 239

Temperature



Product range

3 types
> 450 dimensions
Ø 1–75 mm

iglidur® M250 | Application Examples

Typical sectors of industry and application areas

- Agricultural industry
- Furniture/industrial design
- Textile technology
- Doors and gates
- Machine building etc.

Improve technology and reduce costs – 310 exciting examples for iglidur® plain bearings online

▶ www.igus.eu/iglidur-applications

▶ www.igus.eu/waterpump

▶ www.igus.eu/lawnmover

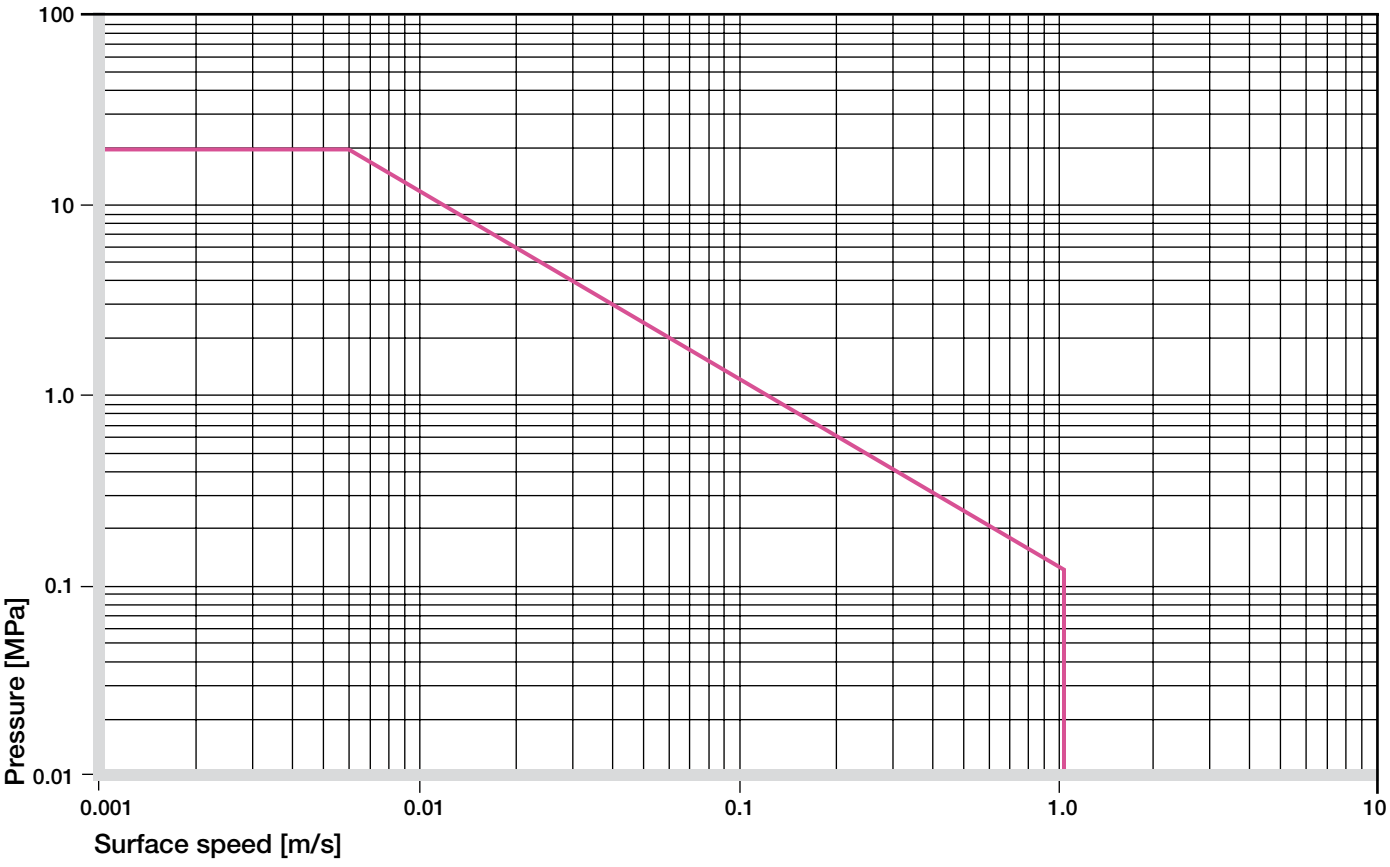
▶ www.igus.eu/camerajib

▶ www.igus.eu/drilling-machine

iglidur® M250 | Technical Data

Material data			
General properties	**Unit**	**iglidur® M250**	**Testing method**
Density	**g/cm³**	1.14	
Colour		charcoal	
Max. moisture absorption at +23 °C/50 % r.h.	**% weight**	1.4	DIN 53495
Max. moisture absorption	**% weight**	7.6	
Coefficient of sliding friction, dynamic against steel	**µ**	0,18–0,40	
pv value, max. (dry)	**MPa · m/s**	0.12	
Mechanical properties			
Modulus of elasticity	**MPa**	2,700	DIN 53457
Tensile strength at +20 °C	**MPa**	112	DIN 53452
Compressive strength	**MPa**	52	
Max. recommended surface pressure (+20 °C)	**MPa**	20	
Shore D hardness		79	DIN 53505
Physical and thermal properties			
Max. long term application temperature	**°C**	+80	
Max. short term application temperature	**°C**	+170	
Min. application temperature	**°C**	–40	
Thermal conductivity	**W/m · K**	0.24	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	**$K^{-1} \cdot 10^{-5}$**	10	DIN 53752
Electrical properties			
Specific volume resistance	**Ωcm**	$> 10^{13}$	DIN IEC 93
Surface resistance	**Ω**	$> 10^{11}$	DIN 53482

Table 01: Material data

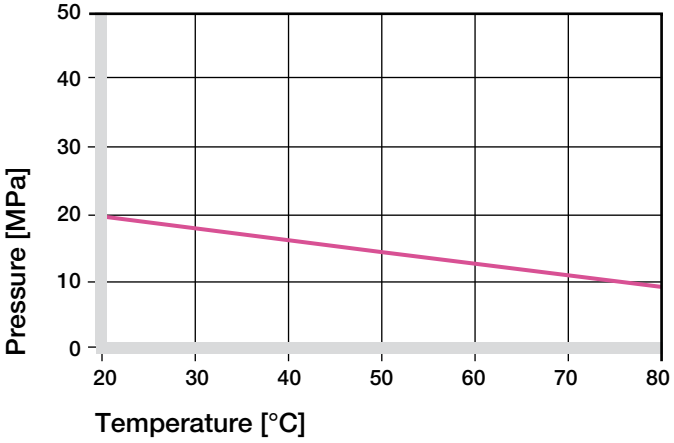


Graph 01: Permissible pv values for iglidur® M250 with a wall thickness of 1 mm dry running against a steel shaft at +20 °C, mounted in a steel housing

Mechanical Properties

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

The Graph 02 shows this inverse relationship. However, at the longterm maximum temperature of +80 °C the permissible surface pressure is almost 10 MPa.

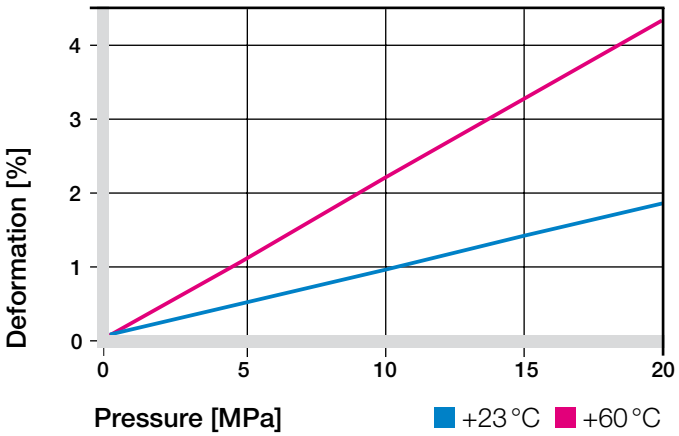


Graph 02: Recommended maximum surface pressure as a function of temperature (20 MPa at +20 °C)

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

iglidur® M250 bearings can withstand radial loads of a maximum 20 MPa. The material deformation is below 2 % at room temperature. Compared with other iglidur® materials iglidur® M250 bearings are highly elastic. By this elasticity, they are able to yield very well, but retain their original shape again. A plastic deformation is minimal up to the permissible surface pressure.

▶ Surface Pressure, **page 33**



Graph 03: Deformation under pressure and temperature

Permissible Surface Speeds

As standard, iglidur® M250 is manufactured as a thick walled bearing. iglidur® M250 is best suited for low to medium surface speeds. The maximum permissible speed for dry running applications is 0.8 m/s (rotating) or 2 m/s (linear). In practice, though, this temperature level is rarely reached, due to varying application conditions.

▶ Surface Speed, **page 35**

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

Table 02: Maximum running speed

Temperatures

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

▶ Application Temperatures, **page 36**

iglidur® M250	Application temperature
Minimum	–40 °C
Max. long term	+80 °C
Max. short term	+170 °C
Add. securing is required from	+60 °C

Table 03: Temperature limits

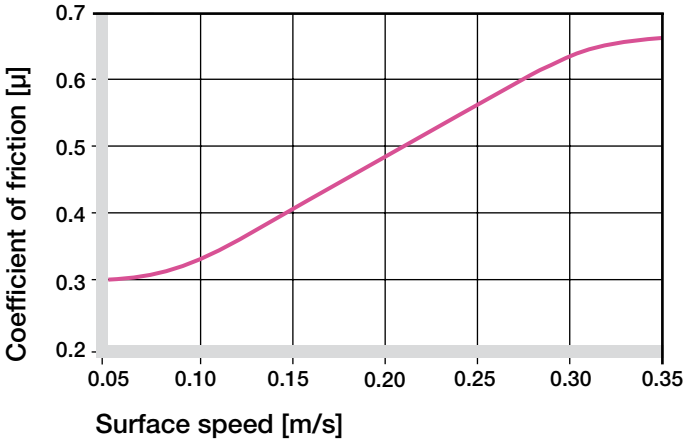
Friction and Wear

The coefficient of friction μ of a plain bearing among other things is influenced by the surface speed and the load. If the load stays constant, then the coefficient of friction increases with increasing speed (see Graph 04).

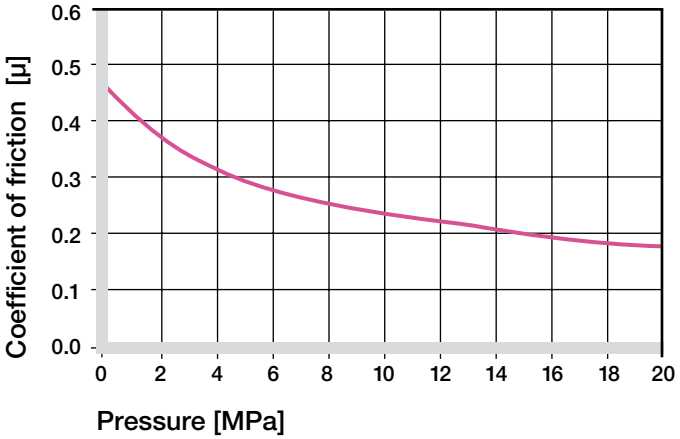
On the other hand, an increase in load at constant speed can result in a reduction in the coefficient of friction (see Graph 05).

▶ Coefficients of Friction and Surfaces, **page 38**

▶ Wear Resistance, **page 39**



Graph 04: Coefficient of friction as a function of the running speed, p = 0.75 MPa



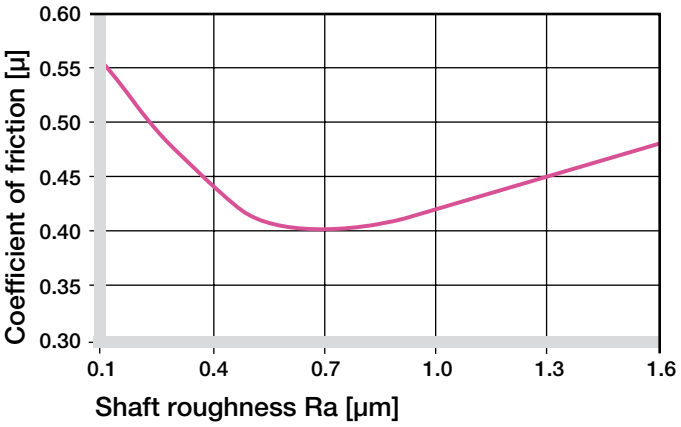
Graph 05: Coefficient of friction as a function of the pressure, v = 0.01 m/s

Shaft Materials

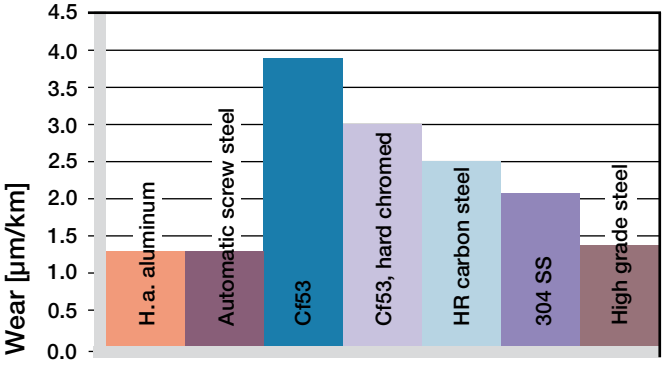
Friction and wear are also greatly dependent on the surface of the shaft. If you observe the coefficient of friction, then the ideal shaft surface finish for iglidur® M250 bearings is Ra = 0.6 mm (Graph 06).

Graphs 07 to 09 show results of testing different shaft materials with plain bearings made of iglidur® M250. Up to loads of 2 MPa the shaft material plays a relatively small role for rotational movements. Graph 07 best illustrates which shaft materials are best suited for smaller loads. If the load increases, the wear of a bearing clearly increases. Therefore, a suitable shaft material must be considered for higher loads. These are hardened shafts, such as cold-rolled steel or hard chromed shafts. Graph 09 makes it clear that iglidur® M250 is considerably better for rotational than for oscillating operation. However, it must be mentioned that in oscillating movements, often the vibrations acting on the bearing are especially high. Here, iglidur® M250 can utilise its special dampening properties. In our test, these vibrations are excluded so that the comparison between rotation and oscillating operation is captured first.

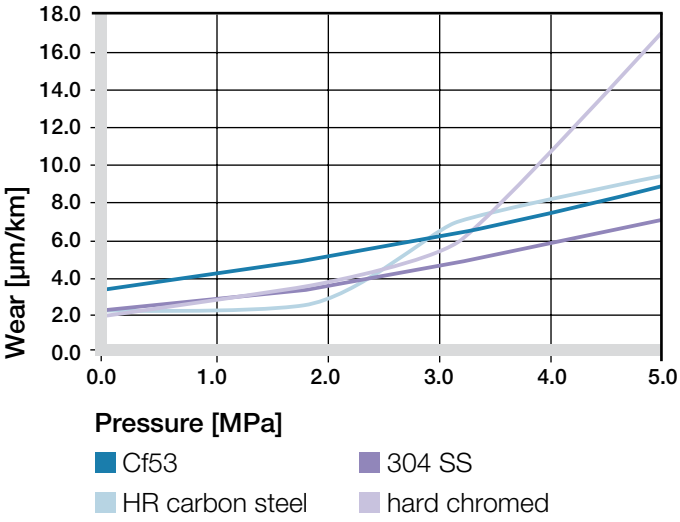
▶ Shaft Materials, **page 41**



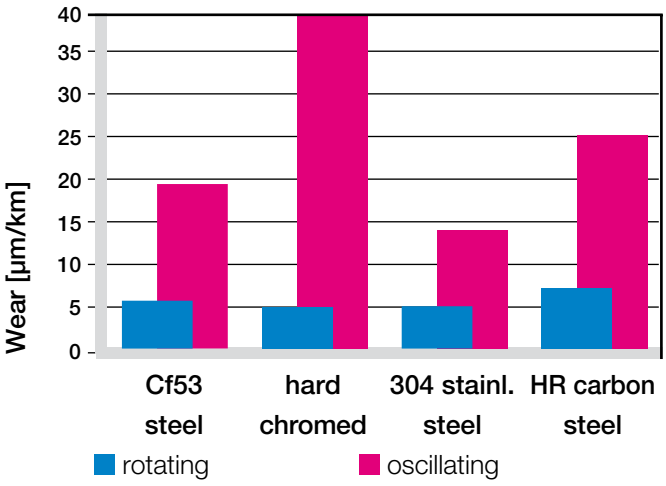
Graph 06: Coefficient of friction as function of the shaft surface (Cf53 hardened and ground steel)



Graph 07: Wear, rotating with different shaft materials, pressure p = 0.75 MPa, v = 0.5 m/s



Graph 08: Wear with different shaft materials in rotational operation, as a function of the pressure



Graph 09: Wear for rotating and oscillating applications with different shaft materials, p = 2 MPa

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

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

Additional Properties

Chemical Resistance

iglidur® M250 plain bearings have a good resistance to chemicals. They are resistant to most lubricants. iglidur® M250 are not affected by most weak organic and inorganic acids.

▶ Chemical Table, **page 974**

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

+ resistant 0 conditionally resistant – not resistant
All data given at room temperature [+20 °C]
Table 05: Chemical resistance

Radiation Resistance

Plain bearings made from iglidur® M250 can be used conditionally under radioactive radiation. They are resistant to radiation up to a radiation intensity of $1 \cdot 10^4$ Gy.

UV Resistance

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

Vacuum

In a vacuum environment, the iglidur® M250 plain bearing releases moisture as vapour. The relatively high moisture absorption of the bearing allows only limited use in the vacuum.

Electrical Properties

iglidur® M250 plain bearings are electrically insulating.

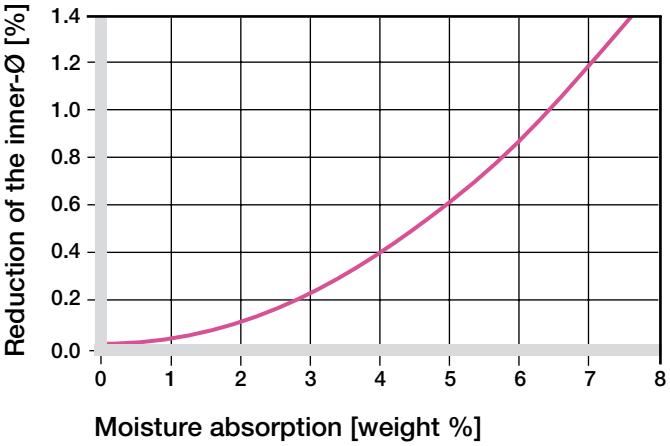
Volume resistance	$> 10^{13}$ Ωcm
Surface resistance	$> 10^{11}$ Ω

Moisture Absorption

The moisture absorption of iglidur® M250 plain bearings is approximately 1.4 % in standard atmosphere. The saturation limit in water is 7.5 %. This must be taken into account along with other application conditions.

Maximum moisture absorption	
At +23 °C/50 % r.h.	1.4 % weight
Max. moisture absorption	7.6 % weight

Table 06: Moisture absorption



Graph 10: Effect of moisture absorption on plain bearings

Installation Tolerances

iglidur® M250 plain bearings require a relatively large amount of clearance for optimal operation. This ensures that the bearing remains reliable during temperature change and water absorption. This clearance, which would not be acceptable for a metallic plain bearing, allows the iglidur® M250 to exhibit its best qualities, such as wear resistance and maintenance free operation. The disadvantages of the clearance are minimised by the vibration dampening properties. The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, the inner diameter adjusts to meet the specified tolerances.

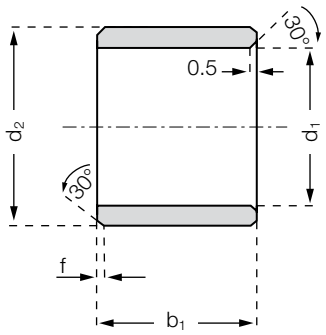
▶ Testing methods, **page 45**

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

Table 07: Important tolerances for plain bearings according to ISO 3547-1 after pressfit

iglidur® M250 | Product Range

Sleeve bearing



Order key

MSM-0103-02

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form S)
- Material iglidur® M250

Dimensions according to DIN 1850 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
MSM-0103-02	1.0	+0.020 +0.080	3.0	2.0
MSM-0104-02	1.5	+0.020 +0.080	4.0	2.0
MSM-0205-01	2.0	+0.020 +0.080	5.0	1.0
MSM-0205-02	2.0	+0.020 +0.080	5.0	2.0
MSM-0205-03	2.0	+0.020 +0.080	5.0	3.0
MSM-0206-03	2.5	+0.020 +0.080	6.0	3.0
MSM-0305-03	3.0	+0.020 +0.080	5.0	3.0
MSM-0305-04	3.0	+0.020 +0.080	5.0	4.0
MSM-0306-03	3.0	+0.020 +0.080	6.0	3.0
MSM-0306-04	3.0	+0.020 +0.080	6.0	4.0
MSM-0407-03	4.0	+0.030 +0.105	7.0	3.0
MSM-0407-04	4.0	+0.030 +0.105	7.0	4.0
MSM-0407-06	4.0	+0.030 +0.105	7.0	6.0
MSM-0408-04	4.0	+0.030 +0.105	8.0	4.0
MSM-0408-06	4.0	+0.030 +0.105	8.0	6.0
MSM-0508-04	5.0	+0.030 +0.105	8.0	4.0
MSM-0508-05	5.0	+0.030 +0.105	8.0	5.0
MSM-0508-08	5.0	+0.030 +0.105	8.0	8.0
MSM-0509-05	5.0	+0.030 +0.105	9.0	5.0
MSM-0509-08	5.0	+0.030 +0.105	9.0	8.0
MSM-0608-10	6.0	+0.030 +0.105	8.0	10.0
MSM-0609-06	6.0	+0.030 +0.105	9.0	6.0
MSM-0610-02	6.0	+0.030 +0.105	10.0	2.5
MSM-0610-04	6.0	+0.030 +0.105	10.0	4.0
MSM-0610-06	6.0	+0.030 +0.105	10.0	6.0

Part number	d1	d1-Tolerance*	d2	b1 h13
MSM-0610-08	6.0	+0.030 +0.105	10.0	8.0
MSM-0610-10	6.0	+0.030 +0.105	10.0	10.0
MSM-0611-04	6.0	+0.030 +0.105	11.0	4.0
MSM-0612-06	6.0	+0.030 +0.105	12.0	6.0
MSM-0612-10	6.0	+0.030 +0.105	12.0	10.0
MSM-0710-05	7.0	+0.040 +0.130	10.0	5.0
MSM-0710-08	7.0	+0.040 +0.130	10.0	8.0
MSM-0710-10	7.0	+0.040 +0.130	10.0	10.0
MSM-0711-16	7.0	+0.040 +0.130	11.0	16.0
MSM-0810-06	8.0	+0.040 +0.130	10.0	6.0
MSM-0810-08	8.0	+0.040 +0.130	10.0	8.0
MSM-0810-10	8.0	+0.040 +0.130	10.0	10.0
MSM-0811-06	8.0	+0.040 +0.130	11.0	6.0
MSM-0811-08	8.0	+0.040 +0.130	11.0	8.0
MSM-0811-12	8.0	+0.040 +0.130	11.0	12.0
MSM-0812-04	8.0	+0.040 +0.130	12.0	4.0
MSM-0812-06	8.0	+0.040 +0.130	12.0	6.0
MSM-0812-08	8.0	+0.040 +0.130	12.0	8.0
MSM-0812-10	8.0	+0.040 +0.130	12.0	10.0
MSM-0812-12	8.0	+0.040 +0.130	12.0	12.0
MSM-0814-06	8.0	+0.040 +0.130	14.0	6.0
MSM-0814-10	8.0	+0.040 +0.130	14.0	10.0
MSM-0912-14	9.0	+0.040 +0.130	12.0	14.0
MSM-1014-06	10.0	+0.040 +0.130	14.0	6.0
MSM-1014-08	10.0	+0.040 +0.130	14.0	8.0

* after pressfit. Testing methods ▶ page 45

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Sleeve bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
MSM-1014-10	10.0	+0.040 +0.130	14.0	10.0
MSM-1014-16	10.0	+0.040 +0.130	14.0	16.0
MSM-1016-06	10.0	+0.040 +0.130	16.0	6.0
MSM-1016-08	10.0	+0.040 +0.130	16.0	8.0
MSM-1016-10	10.0	+0.040 +0.130	16.0	10.0
MSM-1016-16	10.0	+0.040 +0.130	16.0	16.0
MSM-1016-50	10.0	+0.040 +0.130	16.0	50.0
MSM-1214-15	12.0	+0.050 +0.160	14.0	15.0
MSM-1214-20	12.0	+0.050 +0.160	14.0	20.0
MSM-1216-15	12.0	+0.050 +0.160	16.0	15.0
MSM-1216-20	12.0	+0.050 +0.160	16.0	20.0
MSM-1218-08	12.0	+0.050 +0.160	18.0	8.0
MSM-1218-10	12.0	+0.050 +0.160	18.0	10.0
MSM-1218-15	12.0	+0.050 +0.160	18.0	15.0
MSM-1218-20	12.0	+0.050 +0.160	18.0	20.0
MSM-1416-085	14.0	+0.050 +0.160	16.0	8.5
MSM-1416-10	14.0	+0.050 +0.160	16.0	10.0
MSM-1416-15	14.0	+0.050 +0.160	16.0	15.0
MSM-1416-20	14.0	+0.050 +0.160	16.0	20.0
MSM-1416-29	14.0	+0.050 +0.160	16.0	29.0
MSM-1418-20	14.0	+0.050 +0.160	18.0	20.0
MSM-1420-10	14.0	+0.050 +0.160	20.0	10.0
MSM-1420-15	14.0	+0.050 +0.160	20.0	15.0
MSM-1420-20	14.0	+0.050 +0.160	20.0	20.0
MSM-1517-10	15.0	+0.050 +0.160	17.0	10.0
MSM-1517-15	15.0	+0.050 +0.160	17.0	15.0
MSM-1521-10	15.0	+0.050 +0.160	21.0	10.0
MSM-1521-15	15.0	+0.050 +0.160	21.0	15.0
MSM-1521-20	15.0	+0.050 +0.160	21.0	20.0
MSM-1521-23	15.0	+0.050 +0.160	21.0	23.0
MSM-1618-12	16.0	+0.050 +0.160	18.0	12.0
MSM-1618-20	16.0	+0.050 +0.160	18.0	20.0
MSM-1620-20	16.0	+0.050 +0.160	20.0	20.0
MSM-1620-25	16.0	+0.050 +0.160	20.0	25.0
MSM-1620-30	16.0	+0.050 +0.160	20.0	30.0
MSM-1622-12	16.0	+0.050 +0.160	22.0	12.0
MSM-1622-15	16.0	+0.050 +0.160	22.0	15.0
MSM-1622-16	16.0	+0.050 +0.160	22.0	16.0
MSM-1622-20	16.0	+0.050 +0.160	22.0	20.0
MSM-1622-25	16.0	+0.050 +0.160	22.0	25.0
MSM-1824-12	18.0	+0.050 +0.160	24.0	12.0
MSM-1824-20	18.0	+0.050 +0.160	24.0	20.0

Part number	d1	d1-Tolerance*	d2	b1 h13
MSM-1824-30	18.0	+0.050 +0.160	24.0	30.0
MSM-2023-15	20.0	+0.065 +0.195	23.0	15.0
MSM-2023-20	20.0	+0.065 +0.195	23.0	20.0
MSM-2025-14	20.0	+0.065 +0.195	25.0	14.0
MSM-2025-20	20.0	+0.065 +0.195	25.0	20.0
MSM-2025-30	20.0	+0.065 +0.195	25.0	30.0
MSM-2026-12	20.0	+0.065 +0.195	26.0	12.0
MSM-2026-15	20.0	+0.065 +0.195	26.0	15.0
MSM-2026-20	20.0	+0.065 +0.195	26.0	20.0
MSM-2026-30	20.0	+0.065 +0.195	26.0	30.0
MSM-2226-15	22.0	+0.065 +0.195	26.0	15.0
MSM-2228-10	22.0	+0.065 +0.195	28.0	10.0
MSM-2228-15	22.0	+0.065 +0.195	28.0	15.0
MSM-2228-20	22.0	+0.065 +0.195	28.0	20.0
MSM-2228-30	22.0	+0.065 +0.195	28.0	30.0
MSM-2430-15	24.0	+0.065 +0.195	30.0	15.0
MSM-2430-20	24.0	+0.065 +0.195	30.0	20.0
MSM-2430-30	24.0	+0.065 +0.195	30.0	30.0
MSM-2528-12	25.0	+0.065 +0.195	28.0	12.0
MSM-2528-20	25.0	+0.065 +0.195	28.0	20.0
MSM-2530-20	25.0	+0.065 +0.195	30.0	20.0
MSM-2530-30	25.0	+0.065 +0.195	30.0	30.0
MSM-2530-40	25.0	+0.065 +0.195	30.0	40.0
MSM-2532-12	25.0	+0.065 +0.195	32.0	12.0
MSM-2532-20	25.0	+0.065 +0.195	32.0	20.0
MSM-2532-30	25.0	+0.065 +0.195	32.0	30.0
MSM-2532-35	25.0	+0.065 +0.195	32.0	35.0
MSM-2532-40	25.0	+0.065 +0.195	32.0	40.0
MSM-2630-20	26.0	+0.065 +0.195	30.0	20.0
MSM-2632-30	26.0	+0.065 +0.195	32.0	30.0
MSM-2734-20	27.0	+0.065 +0.195	34.0	20.0
MSM-2734-30	27.0	+0.065 +0.195	34.0	30.0
MSM-2734-40	27.0	+0.065 +0.195	34.0	40.0
MSM-2833-20	28.0	+0.065 +0.195	33.0	20.0
MSM-2836-20	28.0	+0.065 +0.195	36.0	20.0
MSM-2836-30	28.0	+0.065 +0.195	36.0	30.0
MSM-2836-40	28.0	+0.065 +0.195	36.0	40.0
MSM-3035-20	30.0	+0.065 +0.195	35.0	20.0
MSM-3035-40	30.0	+0.065 +0.195	35.0	40.0
MSM-3038-20	30.0	+0.065 +0.195	38.0	20.0
MSM-3038-30	30.0	+0.065 +0.195	38.0	30.0
MSM-3038-40	30.0	+0.065 +0.195	38.0	40.0

* after pressfit. Testing methods ▶ page 45

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Sleeve bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
MSM-3040-40	30.0	+0.065 +0.195	40.0	40.0
MSM-3240-20	32.0	+0.080 +0.240	40.0	20.0
MSM-3240-30	32.0	+0.080 +0.240	40.0	30.0
MSM-3240-40	32.0	+0.080 +0.240	40.0	40.0
MSM-3542-50	35.0	+0.080 +0.240	42.0	50.0
MSM-4046-20	40.0	+0.080 +0.240	46.0	20.0
MSM-7580-60	75.0	+0.100 +0.290	80.0	60.0

* after pressfit. Testing methods ▶ page 45

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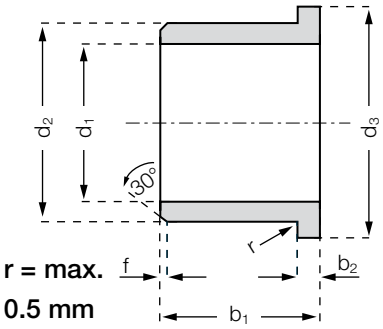
Flange bearing



Order key

MFM-0103-02

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form S)
- Material iglidur® M250

Dimensions according to DIN 1850 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	-0.14
MFM-0103-02	1.0	+0.020 +0.080	3.0	5.0	2.0	1.0
MFM-0104-02	1.5	+0.020 +0.080	4.0	6.0	2.0	1.0
MFM-0205-03	2.0	+0.020 +0.080	5.0	8.0	3.0	1.5
MFM-0206-03	2.5	+0.020 +0.080	6.0	9.0	3.0	1.5
MFM-0306-04	3.0	+0.020 +0.080	6.0	9.0	4.0	1.5
MFM-0408-04	4.0	+0.030 +0.105	8.0	12.0	4.0	2.0
MFM-0408-06	4.0	+0.030 +0.105	8.0	12.0	6.0	2.0
MFM-0408-08	4.0	+0.030 +0.105	8.0	12.0	8.0	2.0
MFM-0509-05	5.0	+0.030 +0.105	9.0	13.0	5.0	2.0
MFM-0509-06	5.0	+0.030 +0.105	9.0	13.0	6.0	2.0
MFM-0509-08	5.0	+0.030 +0.105	9.0	13.0	8.0	2.0
MFM-0610-04	6.0	+0.030 +0.105	10.0	14.0	4.0	2.0
MFM-0610-06	6.0	+0.030 +0.105	10.0	14.0	6.0	2.0
MFM-0610-10	6.0	+0.030 +0.105	10.0	14.0	10.0	2.0
MFM-0612-06	6.0	+0.030 +0.105	12.0	14.0	6.0	3.0
MFM-0612-10	6.0	+0.030 +0.105	12.0	14.0	10.0	3.0
MFM-0711-08	7.0	+0.040 +0.130	11.0	15.0	8.0	2.0
MFM-0811-05	8.0	+0.040 +0.130	11.0	13.0	5.0	2.0
MFM-0811-08	8.0	+0.040 +0.130	11.0	13.0	8.0	2.0
MFM-0812-06	8.0	+0.040 +0.130	12.0	16.0	6.0	2.0
MFM-0812-08	8.0	+0.040 +0.130	12.0	16.0	8.0	2.0
MFM-0812-12	8.0	+0.040 +0.130	12.0	16.0	12.0	2.0
MFM-0814-06	8.0	+0.040 +0.130	14.0	18.0	6.0	3.0
MFM-0814-10	8.0	+0.040 +0.130	14.0	18.0	10.0	3.0
MFM-081416-06	8.0	+0.040 +0.130	14.0	16.0	6.0	3.0

* after pressfit. Testing methods ▶ page 45

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Flange bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	-0.14
MFM-081416-10	8.0	+0.040 +0.130	14.0	16.0	10.0	3.0
MFM-0914-06	9.0	+0.040 +0.130	14.0	19.0	6.0	2.0
MFM-0914-10	9.0	+0.040 +0.130	14.0	19.0	10.0	2.0
MFM-0914-14	9.0	+0.040 +0.130	14.0	19.0	14.0	2.0
MFM-1014-10	10.0	+0.040 +0.130	14.0	19.0	10.0	2.0
MFM-1014-14	10.0	+0.040 +0.130	14.0	17.5	14.0	1.0
MFM-1014-19	10.0	+0.040 +0.130	14.0	17.5	19.0	1.0
MFM-1014-24	10.0	+0.040 +0.130	14.0	17.5	24.0	1.0
MFM-1014-34	10.0	+0.040 +0.130	14.0	17.5	34.0	1.0
MFM-101420-12	10.0	+0.040 +0.130	14.0	20.0	12.0	2.0
MFM-1016-08	10.0	+0.040 +0.130	16.0	22.0	8.0	3.0
MFM-1016-10	10.0	+0.040 +0.130	16.0	22.0	10.0	3.0
MFM-1016-16	10.0	+0.040 +0.130	16.0	22.0	16.0	3.0
MFM-101620-06	10.0	+0.040 +0.130	16.0	20.0	6.0	3.0
MFM-101620-10	10.0	+0.040 +0.130	16.0	20.0	10.0	3.0
MFM-1216-10	12.0	+0.050 +0.160	16.0	22.0	10.0	2.0
MFM-1216-20	12.0	+0.050 +0.160	16.0	22.0	20.0	2.0
MFM-1218-08	12.0	+0.050 +0.160	18.0	24.0	8.0	3.0
MFM-1218-10	12.0	+0.050 +0.160	18.0	22.0	10.0	3.0
MFM-1218-12	12.0	+0.050 +0.160	18.0	24.0	12.0	3.0
MFM-1218-15	12.0	+0.050 +0.160	18.0	22.0	15.0	3.0
MFM-1218-20	12.0	+0.050 +0.160	18.0	22.0	20.0	3.0
MFM-1420-07	14.0	+0.050 +0.160	20.0	25.0	7.0	3.0
MFM-1420-10	14.0	+0.050 +0.160	20.0	25.0	10.0	3.0
MFM-1420-15	14.0	+0.050 +0.160	20.0	25.0	15.0	3.0
MFM-1420-20	14.0	+0.050 +0.160	20.0	25.0	20.0	3.0
MFM-1521-10	15.0	+0.050 +0.160	21.0	27.0	10.0	3.0
MFM-1521-15	15.0	+0.050 +0.160	21.0	27.0	15.0	3.0
MFM-1521-20	15.0	+0.050 +0.160	21.0	27.0	20.0	3.0
MFM-1521-25	15.0	+0.050 +0.160	21.0	27.0	25.0	3.0
MFM-1618-12	16.0	+0.050 +0.160	18.0	24.0	12.0	1.0
MFM-1622-12	16.0	+0.050 +0.160	22.0	28.0	12.0	3.0
MFM-1622-15	16.0	+0.050 +0.160	22.0	28.0	15.0	3.0
MFM-1622-20	16.0	+0.050 +0.160	22.0	28.0	20.0	3.0
MFM-1622-25	16.0	+0.050 +0.160	22.0	28.0	25.0	3.0
MFM-1824-08	18.0	+0.050 +0.160	24.0	30.0	8.0	3.0
MFM-1824-12	18.0	+0.050 +0.160	24.0	30.0	12.0	3.0
MFM-1824-18	18.0	+0.050 +0.160	24.0	30.0	18.0	3.0
MFM-1824-20	18.0	+0.050 +0.160	24.0	30.0	20.0	3.0
MFM-1824-30	18.0	+0.050 +0.160	24.0	30.0	30.0	3.0
MFM-182426-078	18.0	+0.050 +0.160	24.0	26.0	7.8	3.0
MFM-192427-12	19.0	+0.065 +0.195	24.0	27.0	12.0	2.0

iglidur® M250 | Product Range

Flange bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	-0.14
MFM-2026-15	20.0	+0.065 +0.195	26.0	32.0	15.0	3.0
MFM-2026-20	20.0	+0.065 +0.195	26.0	32.0	20.0	3.0
MFM-202628-12	20.0	+0.065 +0.195	26.0	28.0	12.0	3.0
MFM-2026-30	20.0	+0.065 +0.195	26.0	32.0	30.0	3.0
MFM-2228-15	22.0	+0.065 +0.195	28.0	34.0	15.0	3.0
MFM-2228-20	22.0	+0.065 +0.195	28.0	34.0	20.0	3.0
MFM-2228-30	22.0	+0.065 +0.195	28.0	34.0	30.0	3.0
MFM-2430-15	24.0	+0.065 +0.195	30.0	36.0	15.0	3.0
MFM-2430-20	24.0	+0.065 +0.195	30.0	36.0	20.0	3.0
MFM-2430-30	24.0	+0.065 +0.195	30.0	36.0	30.0	3.0
MFM-2532-12	25.0	+0.065 +0.195	32.0	38.0	12.0	4.0
MFM-2532-15	25.0	+0.065 +0.195	32.0	38.0	15.0	4.0
MFM-2532-20	25.0	+0.065 +0.195	32.0	38.0	20.0	4.0
MFM-2532-30	25.0	+0.065 +0.195	32.0	38.0	30.0	4.0
MFM-2532-40	25.0	+0.065 +0.195	32.0	38.0	40.0	4.0
MFM-2734-20	27.0	+0.065 +0.195	34.0	40.0	20.0	4.0
MFM-2734-30	27.0	+0.065 +0.195	34.0	40.0	30.0	4.0
MFM-2734-40	27.0	+0.065 +0.195	34.0	40.0	40.0	4.0
MFM-2836-20	28.0	+0.065 +0.195	36.0	42.0	20.0	4.0
MFM-2836-30	28.0	+0.065 +0.195	36.0	42.0	30.0	4.0
MFM-2836-40	28.0	+0.065 +0.195	36.0	42.0	40.0	4.0
MFM-3035-20	30.0	+0.065 +0.195	35.0	44.0	20.0	4.0
MFM-3038-20	30.0	+0.065 +0.195	38.0	44.0	20.0	4.0
MFM-3038-30	30.0	+0.065 +0.195	38.0	44.0	30.0	4.0
MFM-3038-40	30.0	+0.065 +0.195	38.0	44.0	40.0	4.0
MFM-3240-20	32.0	+0.080 +0.240	40.0	46.0	20.0	4.0
MFM-3240-30	32.0	+0.080 +0.240	40.0	46.0	30.0	4.0
MFM-3240-40	32.0	+0.080 +0.240	40.0	46.0	40.0	4.0

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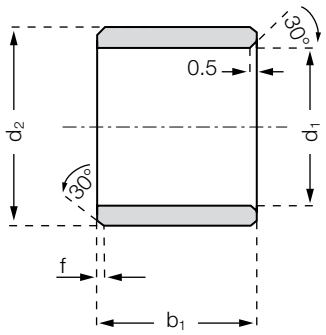
Sleeve bearing



Order key

MSI-0203-02

- Length b1
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form S)
- Material iglidur® M250

Chamfer in relation to the d1

d1 [Inch]:	Ø 0,040–0,236	Ø 0,236–0,472	Ø 0,472–1,18	Ø > 1,18
f [Inch]:	0,012	0,019	0,031	0,047

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
MSI-0203-02	1/8	3/16	1/8	.1280	.1262	.1990	.1985	.1250	.1241
MSI-0203-04	1/8	3/16	1/4	.1280	.1262	.1990	.1985	.1250	.1241
MSI-0204-02	1/8	1/4	1/8	.1280	.1262	.2515	.2510	.1250	.1241
MSI-0204-03	1/8	1/4	3/16	.1280	.1262	.2515	.2510	.1250	.1241
MSI-0204-04	1/8	1/4	1/4	.1280	.1262	.2515	.2510	.1250	.1241
MSI-0204-06	1/8	1/4	3/8	.1280	.1262	.2515	.2510	.1250	.1241
MSI-0304-04	3/16	1/4	1/4	.1905	.1887	.2515	.2510	.1875	.1866
MSI-0304-06	3/16	1/4	3/8	.1905	.1887	.2515	.2510	.1875	.1866
MSI-0304-08	3/16	1/4	1/2	.1905	.1887	.2515	.2510	.1875	.1866
MSI-0305-02	3/16	5/16	1/8	.1905	.1887	.3140	.3135	.1875	.1866
MSI-0305-03	3/16	5/16	3/16	.1905	.1887	.3140	.3135	.1875	.1866
MSI-0305-04	3/16	5/16	1/4	.1905	.1887	.3140	.3135	.1875	.1866
MSI-0305-05	3/16	5/16	5/16	.1905	.1887	.3140	.3135	.1875	.1866
MSI-0305-06	3/16	5/16	3/8	.1905	.1887	.3140	.3135	.1875	.1866
MSI-0305-08	3/16	5/16	1/2	.1905	.1887	.3140	.3135	.1875	.1866
MSI-0405-03	1/4	5/16	3/16	.2539	.2516	.3140	.3135	.2500	.2491
MSI-0405-06	1/4	5/16	3/8	.2539	.2516	.3140	.3135	.2500	.2491
MSI-0405-08	1/4	5/16	1/2	.2539	.2516	.3140	.3135	.2500	.2491
MSI-0406-02	1/4	3/8	1/8	.2539	.2516	.3765	.3760	.2500	.2491
MSI-0406-03	1/4	3/8	3/16	.2539	.2516	.3765	.3760	.2500	.2491
MSI-0406-04	1/4	3/8	1/4	.2539	.2516	.3765	.3760	.2500	.2491
MSI-0406-05	1/4	3/8	5/16	.2539	.2516	.3765	.3760	.2500	.2491
MSI-0406-06	1/4	3/8	3/8	.2539	.2516	.3765	.3760	.2500	.2491
MSI-0406-08	1/4	3/8	1/2	.2539	.2516	.3765	.3760	.2500	.2491
MSI-0406-10	1/4	3/8	5/8	.2539	.2516	.3765	.3760	.2500	.2491

* after pressfit. Testing methods ▶ page 45

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Sleeve bearing

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
MSI-0406-12	1/4	3/8	3/4	.2539	.2516	.3765	.3760	.2500	.2491
MSI-0506-04	5/16	3/8	1/4	.3164	.3141	.3765	.3760	.3125	.3116
MSI-0506-06	5/16	3/8	3/8	.3164	.3141	.3765	.3760	.3125	.3116
MSI-0506-08	5/16	3/8	1/2	.3164	.3141	.3765	.3760	.3125	.3116
MSI-0507-03	5/16	7/16	3/16	.3164	.3141	.4390	.4385	.3125	.3116
MSI-0507-04	5/16	7/16	1/4	.3164	.3141	.4390	.4385	.3125	.3116
MSI-0507-05	5/16	7/16	5/16	.3164	.3141	.4390	.4385	.3125	.3116
MSI-0507-06	5/16	7/16	3/8	.3164	.3141	.4390	.4385	.3125	.3116
MSI-0507-08	5/16	7/16	1/2	.3164	.3141	.4390	.4385	.3125	.3116
MSI-0507-10	5/16	7/16	5/8	.3164	.3141	.4390	.4385	.3125	.3116
MSI-0507-12	5/16	7/16	3/4	.3164	.3141	.4390	.4385	.3125	.3116
MSI-0607-04	3/8	7/16	1/4	.3789	.3766	.4390	.4385	.3750	.3741
MSI-0607-06	3/8	7/16	3/8	.3789	.3766	.4390	.4385	.3750	.3741
MSI-0607-08	3/8	7/16	1/2	.3789	.3766	.4390	.4385	.3750	.3741
MSI-0608-04	3/8	1/2	1/4	.3789	.3766	.5015	.5010	.3750	.3741
MSI-0608-05	3/8	1/2	5/16	.3789	.3766	.5015	.5010	.3750	.3741
MSI-0608-06	3/8	1/2	3/8	.3789	.3766	.5015	.5010	.3750	.3741
MSI-0608-08	3/8	1/2	1/2	.3789	.3766	.5015	.5010	.3750	.3741
MSI-0608-10	3/8	1/2	5/8	.3789	.3766	.5015	.5010	.3750	.3741
MSI-0608-12	3/8	1/2	3/4	.3789	.3766	.5015	.5010	.3750	.3741
MSI-0608-16	3/8	1/2	1	.3789	.3766	.5015	.5010	.3750	.3741
MSI-0709-06	7/16	9/16	3/8	.4422	.4395	.5941	.5934	.4375	.4365
MSI-0709-08	7/16	9/16	1/2	.4422	.4395	.5941	.5934	.4375	.4365
MSI-0810-04	1/2	5/8	1/4	.5047	.5020	.6260	.6250	.5000	.4990
MSI-0810-05	1/2	5/8	5/16	.5047	.5020	.6260	.6250	.5000	.4990
MSI-0810-06	1/2	5/8	3/8	.5047	.5020	.6260	.6250	.5000	.4990
MSI-0810-08	1/2	5/8	1/2	.5047	.5020	.6260	.6250	.5000	.4990
MSI-0810-10	1/2	5/8	5/8	.5047	.5020	.6260	.6250	.5000	.4990
MSI-0810-12	1/2	5/8	3/4	.5047	.5020	.6260	.6250	.5000	.4990
MSI-0810-16	1/2	5/8	1	.5047	.5020	.6260	.6250	.5000	.4990
MSI-1012-04	5/8	3/4	1/4	.6297	.6270	.7510	.7500	.6250	.6240
MSI-1012-06	5/8	3/4	3/8	.6297	.6270	.7510	.7500	.6250	.6240
MSI-1012-08	5/8	3/4	1/2	.6297	.6270	.7510	.7500	.6250	.6240
MSI-1012-10	5/8	3/4	5/8	.6297	.6270	.7510	.7500	.6250	.6240
MSI-1012-12	5/8	3/4	3/4	.6297	.6270	.7510	.7500	.6250	.6240
MSI-1012-16	5/8	3/4	1	.6297	.6270	.7510	.7500	.6250	.6240
MSI-1012-26	5/8	3/4	1 5/8	.6297	.6270	.7510	.7500	.6250	.6240
MSI-1013-06	5/8	13/16	3/8	.6297	.6270	.8135	.8125	.6250	.6240
MSI-1013-08	5/8	13/16	1/2	.6297	.6270	.8135	.8125	.6250	.6240
MSI-1013-10	5/8	13/16	5/8	.6297	.6270	.8135	.8125	.6250	.6240
MSI-1013-12	5/8	13/16	3/4	.6297	.6270	.8135	.8125	.6250	.6240
MSI-1013-16	5/8	13/16	1	.6297	.6270	.8135	.8125	.6250	.6240

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Sleeve bearing

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
MSI-1113-12	11/16	13/16	3/4	.6921	.6893	.8135	.8125	.6875	.6865
MSI-1113-14	11/16	13/16	7/8	.6921	.6893	.8135	.8125	.6875	.6865
MSI-1113-16	11/16	13/16	1	.6922	.6900	.8135	.8125	.6875	.6865
MSI-1214-06	3/4	7/8	3/8	.7559	.7525	.8760	.8750	.7500	.7490
MSI-1214-12	3/4	7/8	3/4	.7559	.7525	.8760	.8750	.7500	.7490
MSI-1214-16	3/4	7/8	1	.7559	.7525	.8760	.8750	.7500	.7490
MSI-1214-24	3/4	7/8	1 1/2	.7559	.7525	.8760	.8750	.7500	.7490
MSI-1216-06	3/4	1	3/8	.7559	.7525	1.0010	1.0000	.7500	.7490
MSI-1216-08	3/4	1	1/2	.7559	.7525	1.0010	1.0000	.7500	.7490
MSI-1216-10	3/4	1	5/8	.7559	.7525	1.0010	1.0000	.7500	.7490
MSI-1216-12	3/4	1	3/4	.7559	.7525	1.0010	1.0000	.7500	.7490
MSI-1216-16	3/4	1	1	.7559	.7525	1.0010	1.0000	.7500	.7490
MSI-1216-20	3/4	1	1 1/4	.7559	.7525	1.0010	1.0000	.7500	.7490
MSI-1216-24	3/4	1	1 1/2	.7559	.7525	1.0010	1.0000	.7500	.7490
MSI-1316-08	13/16	1	1/2	.8184	.8151	1.0010	1.0000	.8126	.8116
MSI-1416-12	7/8	1	3/4	.8809	.8775	1.0010	1.0000	.8750	.8740
MSI-1416-16	7/8	1	1	.8809	.8775	1.0010	1.0000	.8750	.8740
MSI-1416-24	7/8	1	1 1/2	.8809	.8775	1.0010	1.0000	.8750	.8740
MSI-1418-08	7/8	1 1/8	1/2	.8809	.8775	1.1260	1.1250	.8750	.8740
MSI-1418-12	7/8	1 1/8	3/4	.8809	.8775	1.1260	1.1250	.8750	.8740
MSI-1418-16	7/8	1 1/8	1	.8809	.8775	1.1260	1.1250	.8750	.8740
MSI-1418-24	7/8	1 1/8	1 1/2	.8809	.8775	1.1260	1.1250	.8750	.8740
MSI-1618-12	1	1 1/8	3/4	1.0059	1.0025	1.1260	1.1250	1.0000	.9990
MSI-1618-16	1	1 1/8	1	1.0059	1.0025	1.1260	1.1250	1.0000	.9990
MSI-1618-24	1	1 1/8	1 1/2	1.0059	1.0025	1.1260	1.1250	1.0000	.9990
MSI-1620-08	1	1 1/4	1/2	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MSI-1620-10	1	1 1/4	5/8	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MSI-1620-12	1	1 1/4	3/4	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MSI-1620-16	1	1 1/4	1	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MSI-1620-24	1	1 1/4	1 1/2	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MSI-1620-32	1	1 1/4	2	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MSI-1822-16	1 1/8	1 3/8	1	1.1309	1.1275	1.3760	1.3750	1.1250	1.1240
MSI-1822-24	1 1/8	1 3/8	1 1/2	1.1309	1.1275	1.3760	1.3750	1.1250	1.1240
MSI-2024-12	1 1/4	1 1/2	3/4	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
MSI-2024-16	1 1/4	1 1/2	1	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
MSI-2024-22	1 1/4	1 1/2	1 3/8	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
MSI-2024-24	1 1/4	1 1/2	1 1/2	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
MSI-2024-40	1 1/4	1 1/2	2 1/2	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
MSI-2226-16	1 3/8	1 5/8	1	1.3850	1.3182	1.6255	1.6245	1.3750	1.3740

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Sleeve bearing

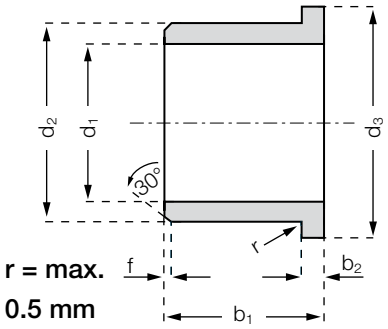
Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
MSI-2428-12	1 1/2	1 3/4	3/4	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990
MSI-2428-16	1 1/2	1 3/4	1	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990
MSI-2428-24	1 1/2	1 3/4	1 1/2	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990
MSI-2428-40	1 1/2	1 3/4	2 1/2	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990
MSI-2630-16	1 5/8	1 7/8	1	1.6350	1.6282	1.8755	1.8745	1.6250	1.6240
MSI-2832-08	1 3/4	2	1/2	1.7560	1.7532	2.0005	1.9995	1.7500	1.7490
MSI-2832-12	1 3/4	2	3/4	1.7560	1.7532	2.0005	1.9995	1.7500	1.7490
MSI-2832-16	1 3/4	2	1	1.7560	1.7532	2.0005	1.9995	1.7500	1.7490
MSI-2832-24	1 3/4	2	1 1/2	1.7560	1.7532	2.0005	1.9995	1.7500	1.7490
MSI-2832-40	1 3/4	2	2 1/2	1.7560	1.7532	2.0005	1.9995	1.7500	1.7490
MSI-3236-16	2	2 1/4	1	2.0100	2.0032	2.2505	2.2495	2.0000	1.9990
MSI-3236-24	2	2 1/4	1 1/2	2.0100	2.0032	2.2505	2.2495	2.0000	1.9990
MSI-3236-32	2	2 1/4	2	2.0100	2.0032	2.2505	2.2495	2.0000	1.9990
MSI-3236-40	2	2 1/4	2 1/2	2.0100	2.0032	2.2505	2.2495	2.0000	1.9990
MSI-4852-16	3	3 1/4	1	3.0114	3.0039	3.2505	3.2495	3.0000	2.9990

* after pressfit. Testing methods ▶ page 45

iglidur® M250 | Product Range | Inch

Flange bearing



Order key

MFI-0203-02

- Length b1
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form F)
- Material iglidur® M250

Chamfer in relation to the d1

d1 [Inch]:	Ø 0,040–0,236	Ø 0,236–0,472	Ø 0,472–1,18	Ø > 1,18
f [Inch]:	0.012	0.019	0.031	0.047

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft size	
						max.	min.	max.	min.	max.	min.
MFI-0203-02	1/8	3/16	1/8	.3125	.032	.1280	.1262	.1885	.1880	.1250	.1241
MFI-0203-04	1/8	3/16	1/4	.3125	.032	.1280	.1262	.1885	.1880	.1250	.1241
MFI-0204-02	1/8	1/4	1/8	.360	.047	.1280	.1262	.2515	.2510	.1250	.1241
MFI-0204-03	1/8	1/4	3/16	.360	.047	.1280	.1262	.2515	.2510	.1250	.1241
MFI-0204-04	1/8	1/4	1/4	.360	.047	.1280	.1262	.2515	.2510	.1250	.1241
MFI-0204-06	1/8	1/4	3/8	.360	.047	.1280	.1262	.2515	.2510	.1250	.1241
MFI-0204-12	1/8	1/4	3/4	.360	.047	.1280	.1262	.2515	.2510	.1250	.1241
MFI-0304-04	3/16	1/4	1/4	.375	.032	.1905	.1887	.2515	.2510	.1875	.1866
MFI-0304-06	3/16	1/4	3/8	.375	.032	.1905	.1887	.2515	.2510	.1875	.1866
MFI-0304-08	3/16	1/4	1/2	.375	.032	.1905	.1887	.2515	.2510	.1875	.1866
MFI-0305-03	3/16	5/16	3/16	.370	.047	.1905	.1887	.3140	.3135	.1875	.1866
MFI-0305-04	3/16	5/16	1/4	.370	.047	.1905	.1887	.3140	.3135	.1875	.1866
MFI-0305-05	3/16	5/16	5/16	.370	.047	.1905	.1887	.3140	.3135	.1875	.1866
MFI-0305-06	3/16	5/16	3/8	.370	.047	.1905	.1887	.3140	.3135	.1875	.1866
MFI-0305-08	3/16	5/16	1/2	.370	.047	.1905	.1887	.3140	.3135	.1875	.1866
MFI-0405-03	1/4	5/16	3/16	.4375	.047	.2539	.2516	.3140	.3135	.2500	.2491
MFI-0405-04	1/4	5/16	1/4	.4375	.032	.2539	.2516	.3140	.3135	.2500	.2491
MFI-0405-06	1/4	5/16	3/8	.4375	.032	.2539	.2516	.3140	.3135	.2500	.2491
MFI-0405-07	1/4	5/16	7/16	.4375	.047	.2539	.2516	.3140	.3135	.2500	.2491
MFI-0405-08	1/4	5/16	1/2	.4375	.032	.2539	.2516	.3140	.3135	.2500	.2491
MFI-0405-12	1/4	5/16	3/4	.4375	.047	.2539	.2516	.3140	.3135	.2500	.2491
MFI-0406-02	1/4	3/8	1/8	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491
MFI-0406-03	1/4	3/8	3/16	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491
MFI-0406-04	1/4	3/8	1/4	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491
MFI-0406-06	1/4	3/8	3/8	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491

* after pressfit. Testing methods ▶ page 45

delivery time **from stock**

prices **price list online**
www.igus.eu/eu/m250

iglidur® M250 | Product Range | Inch

Flange bearing

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft size	
						max.	min.	max.	min.	max.	min.
MFI-0406-08	1/4	3/8	1/2	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491
MFI-0406-10	1/4	3/8	5/8	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491
MFI-0406-12	1/4	3/8	3/4	.560	.047	.2539	.2516	.3765	.3760	.2500	.2491
MFI-0506-04	5/16	3/8	1/4	.500	.032	.3164	.3141	.3765	.3760	.3125	.3116
MFI-0506-06	5/16	3/8	3/8	.500	.032	.3164	.3141	.3765	.3760	.3125	.3116
MFI-0506-08	5/16	3/8	1/2	.500	.032	.3164	.3141	.3765	.3760	.3125	.3116
MFI-0506-15	5/16	3/8	15/16	.500	.032	.3164	.3141	.3765	.3760	.3125	.3116
MFI-0507-03	5/16	7/16	3/16	.560	.062	.3164	.3141	.4390	.4385	.3125	.3116
MFI-0507-04	5/16	7/16	1/4	.560	.062	.3164	.3141	.4390	.4385	.3125	.3116
MFI-0507-05	5/16	7/16	5/16	.560	.062	.3164	.3141	.4390	.4385	.3125	.3116
MFI-0507-06	5/16	7/16	3/8	.560	.062	.3164	.3141	.4390	.4385	.3125	.3116
MFI-0507-08	5/16	7/16	1/2	.560	.062	.3164	.3141	.4390	.4385	.3125	.3116
MFI-0507-10	5/16	7/16	5/8	.560	.062	.3164	.3141	.4390	.4385	.3125	.3116
MFI-0507-12	5/16	7/16	3/4	.560	.062	.3164	.3141	.4390	.4385	.3125	.3116
MFI-0607-04	3/8	7/16	1/4	.5625	.032	.3789	.3766	.4390	.4385	.3750	.3741
MFI-0607-06	3/8	7/16	3/8	.5625	.032	.3789	.3766	.4390	.4385	.3750	.3741
MFI-0607-08	3/8	7/16	1/2	.5625	.032	.3789	.3766	.4390	.4385	.3750	.3741
MFI-0608-02	3/8	1/2	1/8	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
MFI-0608-03	3/8	1/2	3/16	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
MFI-0608-04	3/8	1/2	1/4	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
MFI-0608-05	3/8	1/2	5/16	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
MFI-0608-06	3/8	1/2	3/8	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
MFI-0608-08	3/8	1/2	1/2	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
MFI-0608-10	3/8	1/2	5/8	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
MFI-0608-12	3/8	1/2	3/4	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
MFI-0608-16	3/8	1/2	1	.625	.062	.3789	.3766	.5015	.5010	.3750	.3741
MFI-0709-06	7/16	9/16	3/8	.687	.062	.4422	.4395	.5941	.5934	.4375	.4365
MFI-0709-08	7/16	9/16	1/2	.687	.062	.4422	.4395	.5941	.5934	.4375	.4365
MFI-0810-02	1/2	5/8	1/8	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
MFI-0810-04	1/2	5/8	1/4	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
MFI-0810-05	1/2	5/8	5/16	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
MFI-0810-06	1/2	5/8	3/8	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
MFI-0810-08	1/2	5/8	1/2	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
MFI-0810-10	1/2	5/8	5/8	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
MFI-0810-12	1/2	5/8	3/4	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
MFI-0810-16	1/2	5/8	1	.875	.062	.5047	.5020	.6260	.6250	.5000	.4990
MFI-1012-06	5/8	3/4	3/8	1.000	.062	.6297	.6270	.7510	.7500	.6250	.6240
MFI-1012-08	5/8	3/4	1/2	1.000	.062	.6297	.6270	.7510	.7500	.6250	.6240
MFI-1012-10	5/8	3/4	5/8	1.000	.062	.6297	.6270	.7510	.7500	.6250	.6240
MFI-1012-12	5/8	3/4	3/4	1.000	.062	.6297	.6270	.7510	.7500	.6250	.6240
MFI-1012-16	5/8	3/4	1	1.000	.062	.6297	.6270	.7510	.7500	.6250	.6240
MFI-1012-24	5/8	3/4	1 1/2	1.000	.062	.6297	.6270	.7510	.7500	.6250	.6240

* after pressfit. Testing methods ▶ page 45

iglidur® M250 | Product Range | Inch

Flange bearing

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft size	
						max.	min.	max.	min.	max.	min.
MFI-1013-08	5/8	13/16	1/2	1.063	.062	.6297	.6270	.8135	.8125	.6250	.6240
MFI-1013-10	5/8	13/16	5/8	1.063	.062	.6297	.6270	.8135	.8125	.6250	.6240
MFI-1013-12	5/8	13/16	3/4	1.063	.062	.6297	.6270	.8135	.8125	.6250	.6240
MFI-1013-16	5/8	13/16	1	1.063	.062	.6297	.6270	.8135	.8125	.6250	.6240
MFI-1214-06	3/4	7/8	3/8	1.125	.062	.7559	.7525	.8760	.8750	.6250	.6240
MFI-1214-08	3/4	7/8	1/2	1.125	.062	.7559	.7525	.8760	.8750	.6250	.6240
MFI-1214-12	3/4	7/8	3/4	1.125	.062	.7559	.7525	.8760	.8750	.7500	.7490
MFI-1214-16	3/4	7/8	1	1.125	.062	.7559	.7525	.8760	.8750	.7500	.7490
MFI-1214-24	3/4	7/8	1 1/2	1.125	.062	.7559	.7525	.8760	.8750	.7500	.7490
MFI-1216-08	3/4	1	1/2	1.250	.156	.7559	.7525	1.0010	1.0000	.7500	.7490
MFI-1216-10	3/4	1	5/8	1.250	.156	.7559	.7525	1.0010	1.0000	.7500	.7490
MFI-1216-12	3/4	1	3/4	1.250	.156	.7559	.7525	1.0010	1.0000	.7500	.7490
MFI-1216-16	3/4	1	1	1.250	.156	.7559	.7525	1.0010	1.0000	.7500	.7490
MFI-1216-24	3/4	1	1 1/2	1.250	.156	.7559	.7525	1.0010	1.0000	.7500	.7490
MFI-1416-12	7/8	1	3/4	1.250	.062	.8809	.8775	1.0010	1.0000	.8750	.8740
MFI-1416-16	7/8	1	1	1.250	.062	.8809	.8775	1.0010	1.0000	.8750	.8740
MFI-1416-24	7/8	1	1 1/2	1.250	.062	.8809	.8775	1.0010	1.0000	.8750	.8740
MFI-1418-08	7/8	1 1/8	1/2	1.375	.156	.8809	.8775	1.1260	1.1250	.8750	.8740
MFI-1418-12	7/8	1 1/8	3/4	1.375	.156	.8809	.8775	1.1260	1.1250	.8750	.8740
MFI-1418-16	7/8	1 1/8	1	1.375	.156	.8809	.8775	1.1260	1.1250	.8750	.8740
MFI-1418-24	7/8	1 1/8	1 1/2	1.375	.156	.8809	.8775	1.1260	1.1250	.8750	.8740
MFI-1618-03	1	1 1/8	3/16	1.375	.062	1.0059	1.0025	1.1260	1.1250	1.0000	.9990
MFI-1618-12	1	1 1/8	3/4	1.375	.062	1.0059	1.0025	1.1260	1.1250	1.0000	.9990
MFI-1618-16	1	1 1/8	1	1.375	.062	1.0059	1.0025	1.1260	1.1250	1.0000	.9990
MFI-1618-24	1	1 1/8	1 1/2	1.375	.062	1.0059	1.0025	1.1260	1.1250	1.0000	.9990
MFI-1620-08	1	1 1/4	1/2	1.500	.188	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MFI-1620-10	1	1 1/4	5/8	1.500	.188	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MFI-1620-12	1	1 1/4	3/4	1.500	.188	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MFI-1620-16	1	1 1/4	1	1.500	.188	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MFI-1620-24	1	1 1/4	1 1/2	1.500	.188	1.0059	1.0025	1.2510	1.2500	1.0000	.9990
MFI-2024-07	1 1/4	1 1/2	7/16	1.750	.200	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
MFI-2024-12	1 1/4	1 1/2	3/4	1.750	.200	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
MFI-2024-16	1 1/4	1 1/2	1	1.750	.200	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
MFI-2024-24	1 1/4	1 1/2	1 1/2	1.750	.200	1.2600	1.2531	1.5005	1.4995	1.2500	1.2490
MFI-2226-12	1 3/8	1 5/8	3/4	1.875	.125	1.3850	1.3182	1.6255	1.6245	1.3750	1.3740
MFI-2226-16	1 3/8	1 5/8	1	1.875	.125	1.3850	1.3182	1.6255	1.6245	1.3750	1.3740
MFI-2428-12	1 1/2	1 3/4	3/4	2.000	.125	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990
MFI-2428-16	1 1/2	1 3/4	1	2.000	.125	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990
MFI-2428-24	1 1/2	1 3/4	1 1/2	2.000	.125	1.5100	1.5032	1.7505	1.7495	1.5000	1.4990

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online
www.igus.eu/eu/m250

iglidur® M250 | Product Range | Inch

Flange bearing

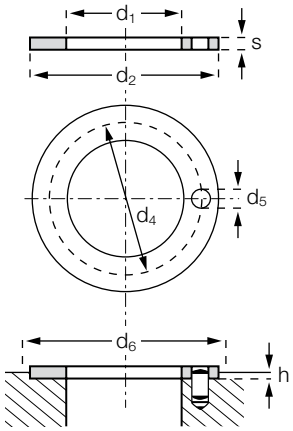
Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft size	
						max.	min.	max.	min.	max.	min.
MFI-2630-16	1 5/8	1 7/8	1	2.125	.125	1.6350	1.6282	1.8755	1.8745	1.6250	1.6240
MFI-2832-12	1 3/4	2	3/4	2.250	.125	1.7560	1.7532	2.0005	1.9995	1.7500	1.7490
MFI-2832-16	1 3/4	2	1	2.250	.125	1.7560	1.7532	2.0005	1.9995	1.7500	1.7490
MFI-2832-24	1 3/4	2	1 1/2	2.250	.125	1.7560	1.7532	2.0005	1.9995	1.7500	1.7490
MFI-3236-16	2	2 1/4	1	2.500	.125	2.0100	2.0032	2.2550	2.2540	2.0000	1.9990
MFI-3236-24	2	2 1/4	1 1/2	2.500	.125	2.0100	2.0032	2.2550	2.2540	2.0000	1.9990
MFI-3236-32	2	2 1/4	2	2.500	.125	2.0100	2.0032	2.2550	2.2540	2.0000	1.9990

* after pressfit. Testing methods ▶ page 45

iglidur® M250 | Product Range | Inch

Thrust washer



Order key

MTI-04

- Thickness s
- Inch
- Type (Form T)
- Material iglidur® M250

Dimensions [Inch]

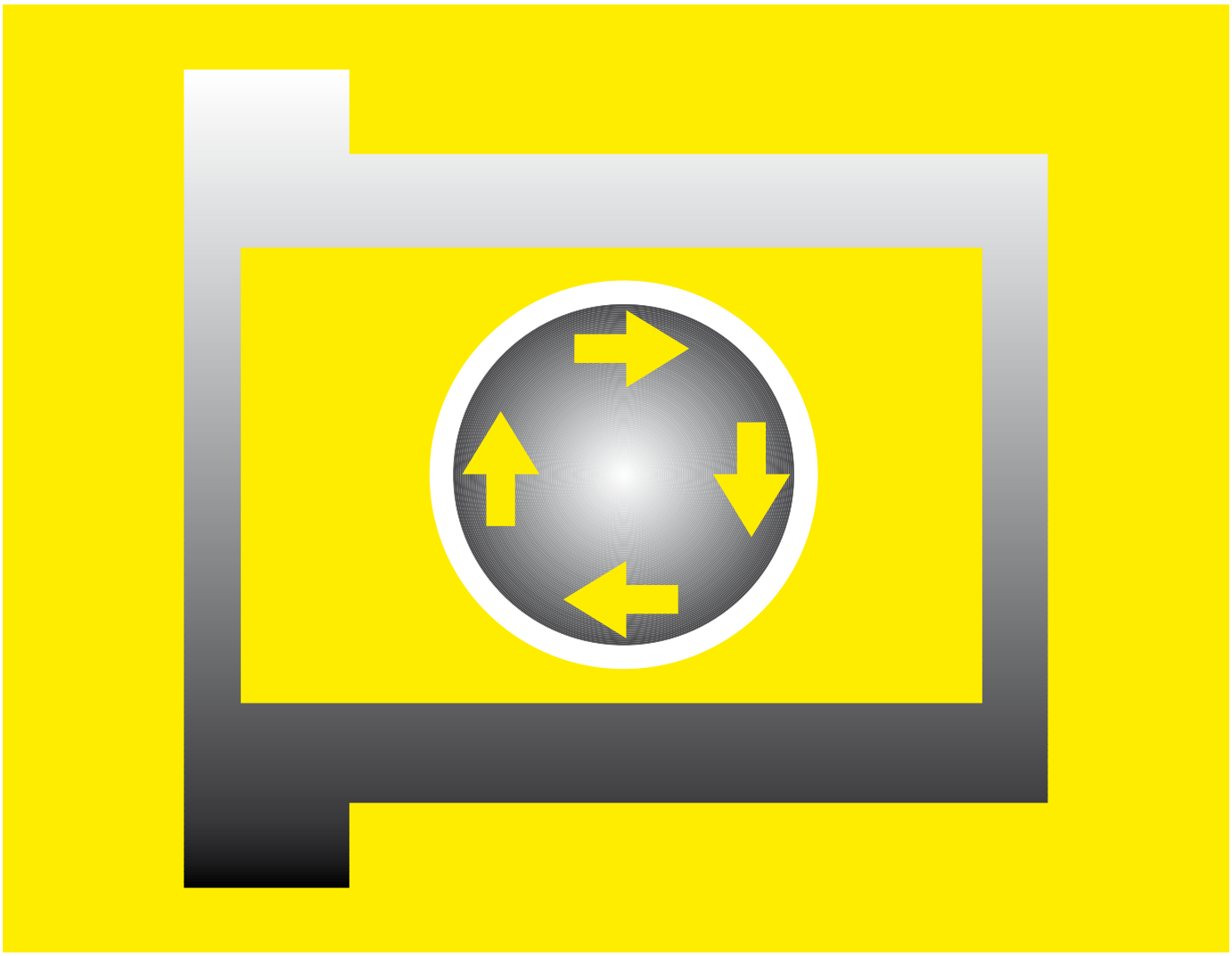
Part number	d1 (nominal)	d1*		d2		s
		max.	min.	max.	min.	
MTI-04	1/4	.2609	.2550	.6200	.6094	.0900
MTI-05	5/16	.3271	.3189	.6874	.6767	.0900
MTI-06	3/8	.3850	.3780	.7409	.7394	.0900
MTI-08	1/2	.5101	.5030	.8200	.8070	.0900
MTI-10	5/8	.6371	.6300	1.0000	.9870	.0940
MTI-12	3/4	.7675	.7600	1.0630	1.0500	.0940
MTI-16	1	1.0200	1.0100	1.5000	1.4843	.1250
MTI-20	1 1/4	1.2998	1.2900	2.1400	2.1220	.0980
MTI-24	1 1/2	1.6000	1.5500	2.6000	2.5500	.1250

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online
www.igus.eu/eu/m250

My Sketches

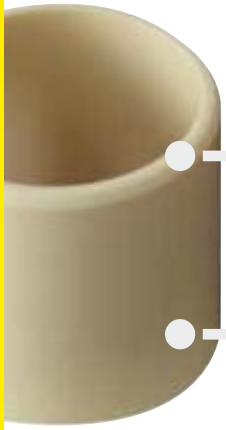


iglidur® W300 – The Marathon Runner: long service life, also for soft shafts

- Over 400 sizes available from stock
- For especially long service life
- Low coefficient of friction
- Extremely high wear resistance
- Also suitable for soft shafts
- Resistant to dirt

iglidur® W300 | The Marathon Runner

Long service life, also for soft shafts. The iglidur® W300 material gives excellent wear resistance, even in harsh environments or when used with rough shafts. Of all iglidur® materials, iglidur® W300 is the most resistant to these conditions.



For especially high service life

Low coefficient of friction

Extremely high wear resistance

Also suitable for soft shafts

Resistant to dirt

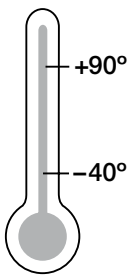
When to use it?

- When especially high service life is necessary
- When low coefficients of dynamic friction and high wear resistance are needed
- For use on 303 stainless steel shafts
- For harsh environments and very rough shafts
- Dirt resistant

When not to use it?

- For high loads starting at 50 MPa
  ▶ iglidur® Q, page 451
- When temperatures are constantly above +90 °C
  ▶ iglidur® H, page 315
  ▶ iglidur® X, page 143
- For very wet environments
  ▶ iglidur® P, page 175
- When an economical bearing is required
  ▶ iglidur® G, page 51

Temperature



Product range

3 types
> 400 dimensions
Ø 2–120 mm

iglidur® W300 | Application Examples

Typical sectors of industry and application areas

- Automation
- Printing industry
- Woodworking
- Mechatronics
- Test engineering and quality assurace etc.

Improve technology and reduce costs – 310 exciting examples for iglidur® plain bearings online

▶ **www.igus.eu/iglidur-applications**

▶ **www.igus.eu/hydrogen-car**

▶ **www.igus.eu/concrete-machines**

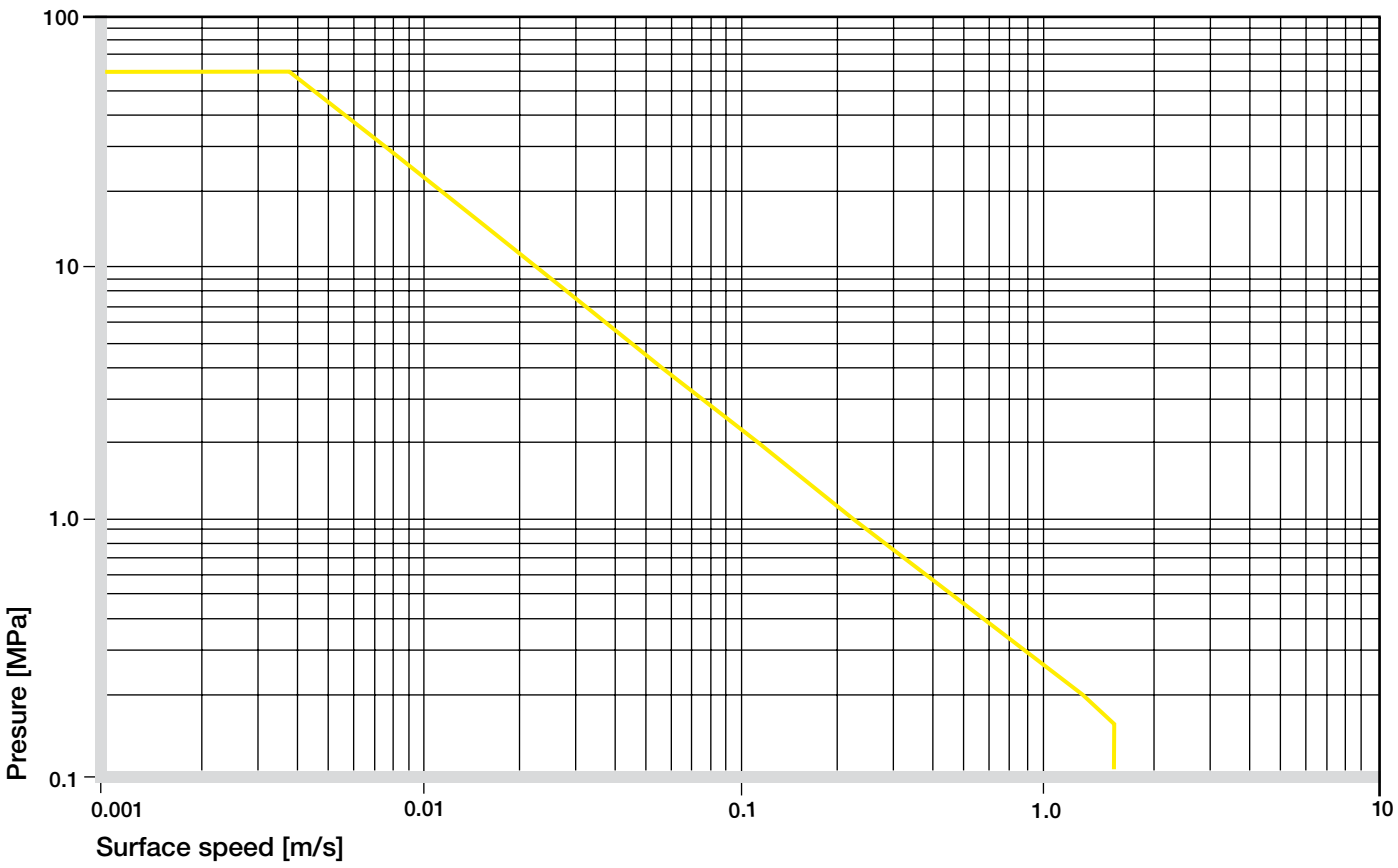
▶ **www.igus.eu/rickshaw**

▶ **www.igus.eu/teebag-packaging**

iglidur® W300 | Technical Data

Material data			
General properties	**Unit**	**iglidur® W300**	**Testing method**
Density	**g/cm³**	1.24	
Colour		yellow	
Max. moisture absorption at +23 °C/50 % r.h.	**% weight**	1.3	DIN 53495
Max. moisture absorption	**% weight**	6.5	
Coefficient of sliding friction, dynamic against steel	**µ**	0.08–0.23	
pv value, max. (dry)	**MPa · m/s**	0.23	
Mechanical properties			
Modulus of elasticity	**MPa**	3,500	DIN 53457
Tensile strength at +20 °C	**MPa**	125	DIN 53452
Compressive strength	**MPa**	61	
Max. recommended surface pressure (+20 °C)	**MPa**	60	
Shore D hardness		77	DIN 53505
Physical and thermal properties			
Max. long term application temperature	**°C**	+90	
Max. short term application temperature	**°C**	+180	
Min. application temperature	**°C**	–40	
Thermal conductivity	**W/m · K**	0.24	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	**$K^{-1} \cdot 10^{-5}$**	9	DIN 53752
Electrical properties			
Specific volume resistance	**Ωcm**	$> 10^{13}$	DIN IEC 93
Surface resistance	**Ω**	$> 10^{12}$	DIN 53482

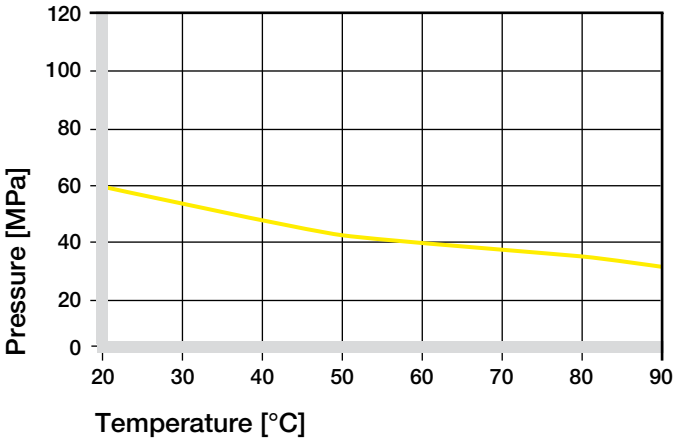
Table 01: Material data



Graph 01: Permissible pv values for iglidur® W300 with a wall thickness of 1 mm dry running against a steel shaft at +20 °C, mounted in a steel housing

Mechanical Properties

The recommended maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this. With increasing temperatures, the compressive strength of iglidur® W300 plain bearings decreases. The Graph 02 shows this inverse relationship. However, at the longterm maximum temperature of +90 °C the permissible surface pressure is almost 30 MPa.



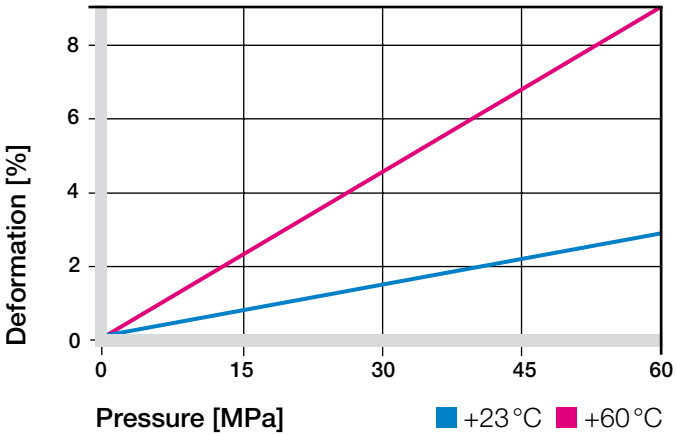
Graph 02: Recommended maximum surface pressure as a function of temperature (60 MPa at +20 °C)

iglidur® W300 gives excellent wear resistance, even in harsh environments or when used with rough shafts. This material is the most tolerant of these external effects out of all the iglidur® range.

iglidur® W300 exhibits a very high compression resistance in spite of its high elasticity.Graph 03 shows the elastic deformation of iglidur® W300 under radial loading. At the recommended maximum surface pressure of 60 MPa, the deformation at room temperature is less than 3 %.

Below the recommended maximum surface pressure of 60 MPa the deformation at room temperature is virtually zero.

▶ Surface Speed, **page 33**



Graph 03: Deformation under pressure and temperature

Permissible Surface Speeds

Even at higher surface speeds, the coefficients of friction for iglidur® W300 do not increase. Therefore, compared to other materials, higher surface speeds can be obtained, for example, up to 1.5 m/s rotat ing and up to 5 m/s linear. The bearing wear remains low when used for long periods at high speeds, due to exceptional wear resistance. Relatively high speeds can be obtained with iglidur® W300 bearings on hardened shafts with the recommended surface finish.

▶ Surface Speed, **page 35**

m/s	Rotating	Oscillating	Linear
Continuous	1	0.7	4
Short term	2.5	1.8	6

Table 02: Maximum surface speeds

Temperatures

iglidur® W300 plain bearings show minimal reaction to environmental effects. This also applies to temperatures. iglidur® W300 bearings maintain their exceptional wear resistance even up to the highest permissible application temperatures and at the same time resist becoming brittle at low temperatures.

▶ Application Temperatures, **page 36**

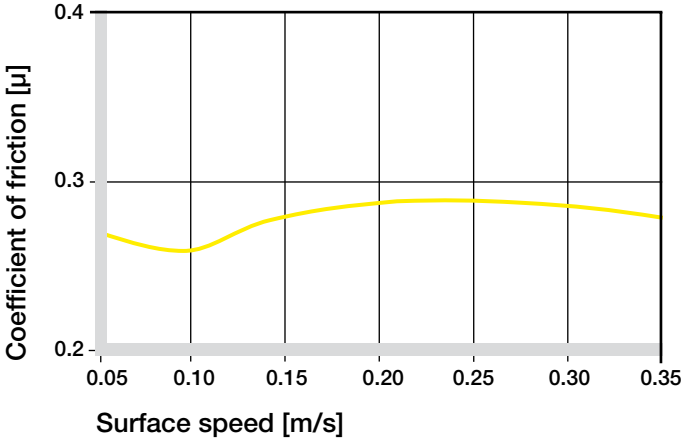
iglidur® W300	Application temperature
Minimum	–40 °C
Max. long term	+90 °C
Max. short term	+180 °C
Add. securing is required from	+60 °C

Table 03: Temperature limits

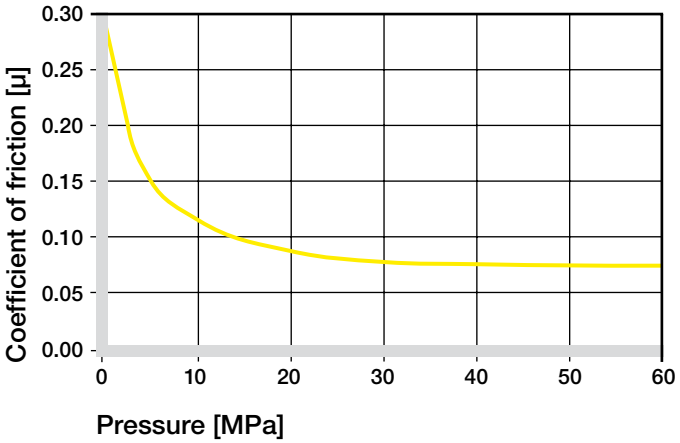
Friction and Wear

Similar to wear resistance, the coefficient of friction μ also changes with the load. In contrast to other iglidur® materials, the coefficient of friction of iglidur® W300 remains consistently low at higher rotational speeds.

▶ Coefficients of Friction and Surfaces, **page 38**
▶ Wear Resistance, **page 39**



Graph 04: Coefficient of friction as a function of the running speed, p = 0.75 MPa



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

Shaft Materials

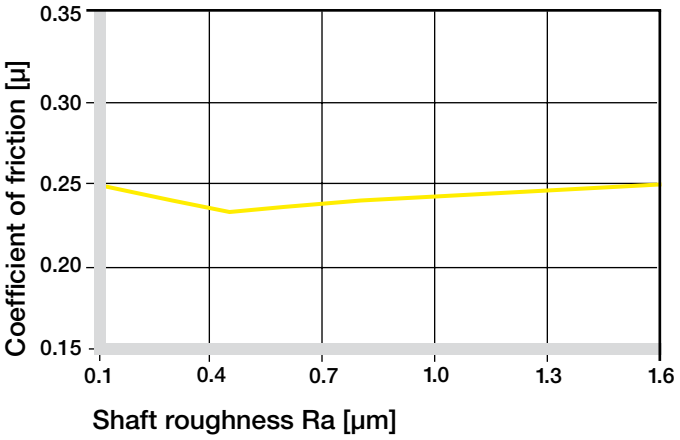
Friction and wear are to a large extent also highly dependant on the shaft materials. Shafts that are too smooth increase both the coefficient of friction and the wear of the bearing. Smooth shafts have the danger of stick slip. Squeaking as an effect of stick slip is usually the result of shafts that are too smooth.

For the lowest coefficients of friction when using iglidur® W300 plain bearings, the surfaces should not be too smooth. Shaft roughnesses of 0.4 to 0.5 μm have proven to be the best (see Graph 06). Tests with iglidur® W300 have shown the wear resistance at this roughness is very high, while the friction reduces to the lowest value.

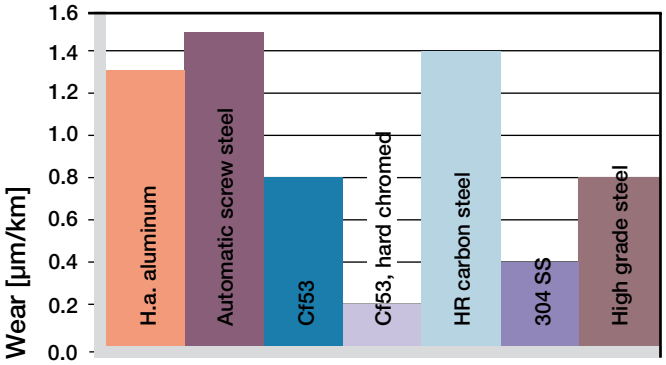
Graphs 07 to 09 show results of testing different shaft materials with iglidur® W300 plain bearings. For rotational applications with low loads, the wear varies according to the shaft material. iglidur® W300 provides very good to acceptable coefficients of friction for all shafts that were tested. iglidur® W300 gives best results when running on hard shafts. For small radial loads with hard chromed shafts and/or shafts made of stainless steel, iglidur® W300 is the most suitable iglidur® material.The soft shaft materials HR carbon steel and free-machining steel are not as well suited to iglidur® W300 plain bearings. Hardened shafts are preferred for applications for higher loads. Graph 08 clearly shows the difference in materials for increasing loads. A similar picture emerges for oscillating applications. First, for low loads, the wear for the oscillating movement lies below that of a rotation at the same load.

For higher loads, the situation changes. If the shaft material you plan to use is not contained in this list, please contact us.

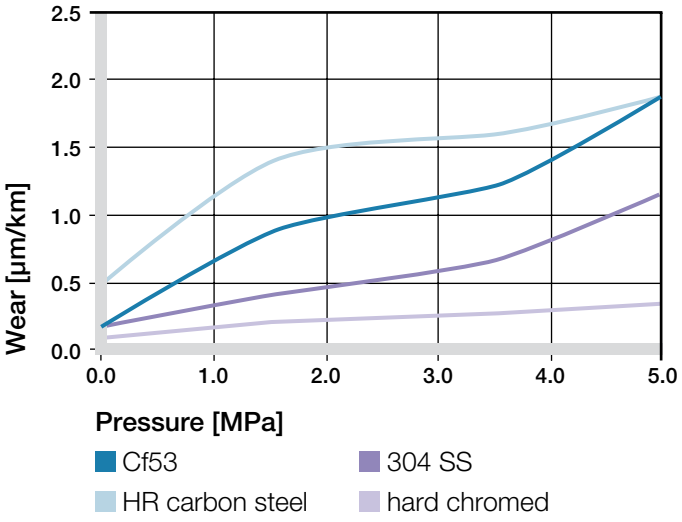
▶ Shaft Materials, **page 41**



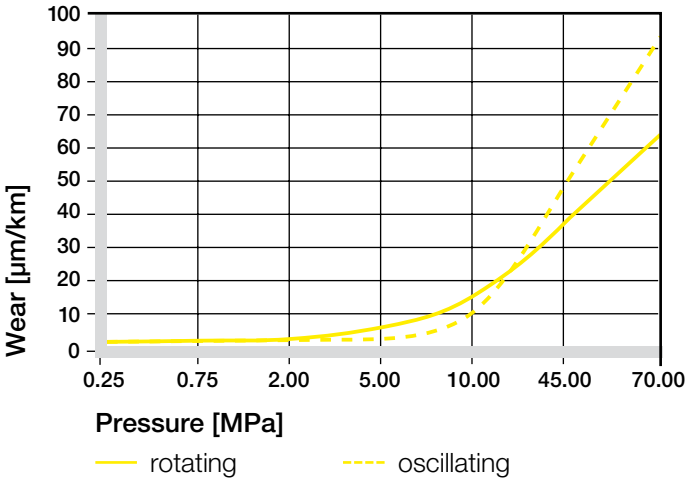
Graph 06: Coefficient of friction as function of the shaft surface (Cf53 hardened and ground steel)



Graph 07: Wear, rotating application with different shaft materials, p = 0.75 MPa, v = 0.5 m/s



Graph 08: Wear with different shaft materials in rotational operation, as a function of the pressure



Graph 09: Wear for oscillating and rotating applications with Cf53 hardenend and ground steel shafts, as a function of the pressure

iglidur® W300	Dry	Greases	Oil	Water
C. o. f. µ	0,08–0.23	0.09	0.04	0.04

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

Additional Properties

Chemical Resistance

iglidur® W300 plain bearings have a good resistance to chemicals. They are resistant to most lubricants. iglidur® W300 is not attacked by most weak organic or inorganic acids.

▶ Chemical Table, **page 974**

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

+ resistant 0 conditionally resistant – not resistant
All data given at room temperature [+20 °C]
Table 05: Chemical resistance

Radiation Resistance

Plain bearings made from iglidur® W300 are resistant to radiation up to an intensity of $3 \cdot 10^2$ Gy.

UV Resistance

iglidur® W300 plain bearings are permanently resistant to UV radiation. A slight change in colour (dark coloration) due to UV radiation and other weathering effects will not significantly influence the mechanical, electrical or thermal properties.

Vacuum

In a vacuum, iglidur® W300 plain bearings will outgas any moisture that may have been absorbed. The use of iglidur® W300 in a vacuum environment is only possible to a limited extent.

Electrical Properties

iglidur® W300 plain bearings are electrically insulating.

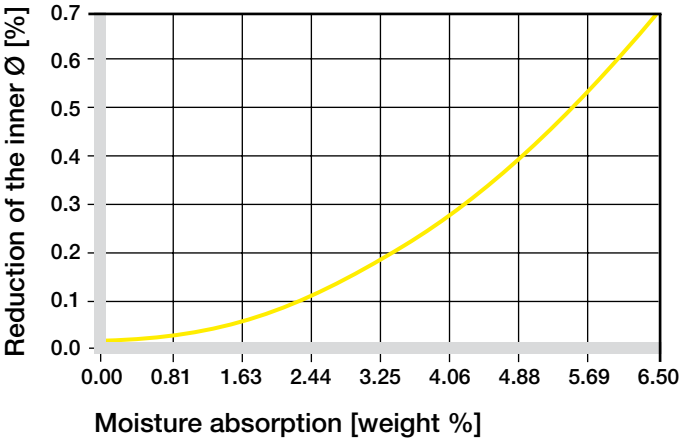
Specific volume resistance	> 10^{13} Ωcm
Surface resistance	> 10^{12} Ω

Moisture Absorption

The moisture absorption of iglidur® W300 plain bearings is approximately 1.3 % weight in the standard atmosphere. The maximum water absorption is 6.5 %. This must be taken into account along with other environmental influences.

Maximum moisture absorption	
At +23 °C/50 % r.h.	1.3 % weight
Max. moisture absorbtion	6.5 % weight

Table 06: Moisture absorption



Graph 10: Effect of moisture absorption on plain bearings

Installation Tolerances

iglidur® W300 plain bearings are meant to be oversized before pressfit. The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, the inner diameter adjusts to meet the specified tolerances.

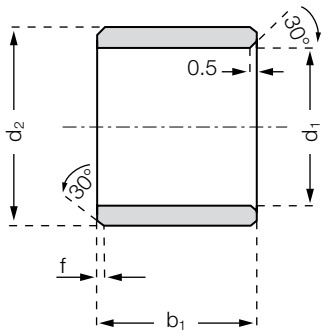
▶ Testing Methods, **page 45**

Diameter d1 [mm]			Shaft h9 [mm]	iglidur® W300 E10 [mm]	Housing H7 [mm]
	up to	3	0–0.025	+0.014 +0.054	0 +0.010
> 3	to	6	0–0.030	+0.020 +0.068	0 +0.012
> 6	to	10	0–0.036	+0.025 +0.083	0 +0.015
> 10	to	18	0–0.043	+0.032 +0.102	0 +0.018
> 18	to	30	0–0.052	+0.040 +0.124	0 +0.021
> 30	to	50	0–0.062	+0.050 +0.150	0 +0.025
> 50	to	80	0–0.074	+0.060 +0.180	0 +0.030
> 80	to	120	0–0.087	+0.072 +0.212	0 +0.035
> 120	to	180	0–0.100	+0.085 +0.245	0 +0.040

Table 07: Essential tolerances for plain bearings according to ISO 3547-1 after pressfit

iglidur® W300 | Product Range

Sleeve bearing



Order key

WSM-0203-03

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form S)
- Material iglidur® G

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
WSM-0203-03	2.0	+0.014 +0.054	3.5	3.0
WSM-0204-03	2.5	+0.014 +0.054	4.0	3.0
WSM-0304-03	3.0	+0.014 +0.054	4.5	3.0
WSM-0304-05	3.0	+0.014 +0.054	4.5	5.0
WSM-0304-06	3.0	+0.014 +0.054	4.5	6.0
WSM-0405-04	4.0	+0.020 +0.068	5.5	4.0
WSM-0405-06	4.0	+0.020 +0.068	5.5	6.0
WSM-0405-08	4.0	+0.020 +0.068	5.5	8.0
WSM-0405-10	4.0	+0.020 +0.068	5.5	10.0
WSM-0507-05	5.0	+0.020 +0.068	7.0	5.0
WSM-0507-08	5.0	+0.020 +0.068	7.0	8.0
WSM-0507-10	5.0	+0.020 +0.068	7.0	10.0
WSM-0608-06	6.0	+0.020 +0.068	8.0	6.0
WSM-0608-08	6.0	+0.020 +0.068	8.0	8.0
WSM-0608-09	6.0	+0.020 +0.068	8.0	9.5
WSM-0608-10	6.0	+0.020 +0.068	8.0	10.0
WSM-0608-11	6.0	+0.020 +0.068	8.0	11.8
WSM-0608-13	6.0	+0.020 +0.068	8.0	13.8
WSM-0709-09	7.0	+0.025 +0.083	9.0	9.0
WSM-0709-12	7.0	+0.025 +0.083	9.0	12.0
WSM-0709-125	7.0	+0.025 +0.083	9.0	12.5
WSM-0810-06	8.0	+0.025 +0.083	10.0	6.0
WSM-0810-08	8.0	+0.025 +0.083	10.0	8.0
WSM-0810-10	8.0	+0.025 +0.083	10.0	10.0
WSM-0810-12	8.0	+0.025 +0.083	10.0	12.0

Part number	d1	d1-Tolerance*	d2	b1 h13
WSM-0810-13	8.0	+0.025 +0.083	10.0	13.8
WSM-0810-15	8.0	+0.025 +0.083	10.0	15.0
WSM-0810-16	8.0	+0.025 +0.083	10.0	16.0
WSM-0810-20	8.0	+0.025 +0.083	10.0	20.0
WSM-0810-21	8.0	+0.025 +0.083	10.0	21.0
WSM-0911-06	9.0	+0.025 +0.083	11.0	6.0
WSM-1012-04	10.0	+0.025 +0.083	12.0	4.0
WSM-1012-06	10.0	+0.025 +0.083	12.0	6.0
WSM-1012-08	10.0	+0.025 +0.083	12.0	8.0
WSM-1012-09	10.0	+0.025 +0.083	12.0	9.0
WSM-1012-10	10.0	+0.025 +0.083	12.0	10.0
WSM-1012-12	10.0	+0.025 +0.083	12.0	12.0
WSM-1012-15	10.0	+0.025 +0.083	12.0	15.0
WSM-1012-17	10.0	+0.025 +0.083	12.0	17.0
WSM-1012-20	10.0	+0.025 +0.083	12.0	20.0
WSM-1012-25.5	10.0	+0.025 +0.083	12.0	25.5
WSM-1113-08	11.0	+0.032 +0.102	13.0	8.0
WSM-1214-04	12.0	+0.032 +0.102	14.0	4.0
WSM-1214-05	12.0	+0.032 +0.102	14.0	5.0
WSM-1214-06	12.0	+0.032 +0.102	14.0	6.0
WSM-1214-08	12.0	+0.032 +0.102	14.0	8.0
WSM-1214-10	12.0	+0.032 +0.102	14.0	10.0
WSM-1214-12	12.0	+0.032 +0.102	14.0	12.0
WSM-1214-15	12.0	+0.032 +0.102	14.0	15.0
WSM-1214-20	12.0	+0.032 +0.102	14.0	20.0

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online
www.igus.eu/eu/w300

iglidur® W300 | Product Range

Sleeve bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
WSM-1214-25	12.0	+0.032 +0.102	14.0	25.0
WSM-1315-07	13.0	+0.032 +0.102	15.0	7.0
WSM-1315-10	13.0	+0.032 +0.102	15.0	10.0
WSM-1315-15	13.0	+0.032 +0.102	15.0	15.0
WSM-1315-20	13.0	+0.032 +0.102	15.0	20.0
WSM-1416-07	14.0	+0.032 +0.102	16.0	7.25
WSM-1416-10	14.0	+0.032 +0.102	16.0	10.0
WSM-1416-15	14.0	+0.032 +0.102	16.0	15.0
WSM-1416-20	14.0	+0.032 +0.102	16.0	20.0
WSM-1416-25	14.0	+0.032 +0.102	16.0	25.0
WSM-1416-33	14.0	+0.032 +0.102	16.0	33.0
WSM-1517-10	15.0	+0.032 +0.102	17.0	10.0
WSM-1517-15	15.0	+0.032 +0.102	17.0	15.0
WSM-1517-20	15.0	+0.032 +0.102	17.0	20.0
WSM-1517-25	15.0	+0.032 +0.102	17.0	25.0
WSM-1618-07	16.0	+0.032 +0.102	18.0	7.0
WSM-1618-08	16.0	+0.032 +0.102	18.0	8.0
WSM-1618-11	16.0	+0.032 +0.102	18.0	11.5
WSM-1618-12	16.0	+0.032 +0.102	18.0	12.0
WSM-1618-15	16.0	+0.032 +0.102	18.0	15.0
WSM-1618-20	16.0	+0.032 +0.102	18.0	20.0
WSM-1618-25	16.0	+0.032 +0.102	18.0	25.0
WSM-1820-12	18.0	+0.032 +0.102	20.0	12.0
WSM-1820-15	18.0	+0.032 +0.102	20.0	15.0
WSM-1820-20	18.0	+0.032 +0.102	20.0	20.0
WSM-1820-25	18.0	+0.032 +0.102	20.0	25.0
WSM-1820-33	18.0	+0.032 +0.102	20.0	33.0
WSM-1820-35	18.0	+0.032 +0.102	20.0	35.0
WSM-1922-28	19.0	+0.040 +0.124	22.0	28.0
WSM-2022-11	20.0	+0.040 +0.124	22.0	11.5
WSM-2022-12	20.0	+0.040 +0.124	22.0	12.0
WSM-2022-15	20.0	+0.040 +0.124	22.0	15.0
WSM-2022-20	20.0	+0.040 +0.124	22.0	20.0
WSM-2022-30	20.0	+0.040 +0.124	22.0	30.0
WSM-2023-08	20.0	+0.040 +0.124	23.0	8.0
WSM-2023-12	20.0	+0.040 +0.124	23.0	12.0
WSM-2023-15	20.0	+0.040 +0.124	23.0	15.0
WSM-2023-20	20.0	+0.040 +0.124	23.0	20.0
WSM-2023-23	20.0	+0.040 +0.124	23.0	23.0
WSM-2023-25	20.0	+0.040 +0.124	23.0	25.0
WSM-2023-30	20.0	+0.040 +0.124	23.0	30.0
WSM-2224-15	22.0	+0.040 +0.124	24.0	15.0
WSM-2224-20	22.0	+0.040 +0.124	24.0	20.0
WSM-2224-30	22.0	+0.040 +0.124	24.0	30.0
WSM-2224-35	22.0	+0.040 +0.124	24.0	35.0
WSM-2225-15	22.0	+0.040 +0.124	25.0	15.0
WSM-2225-20	22.0	+0.040 +0.124	25.0	20.0
WSM-2225-25	22.0	+0.040 +0.124	25.0	25.0
WSM-2225-30	22.0	+0.040 +0.124	25.0	30.0
WSM-2427-15	24.0	+0.040 +0.124	27.0	15.0
WSM-2427-20	24.0	+0.040 +0.124	27.0	20.0
WSM-2427-25	24.0	+0.040 +0.124	27.0	25.0
WSM-2427-30	24.0	+0.040 +0.124	27.0	30.0
WSM-2528-12	25.0	+0.040 +0.124	28.0	12.0
WSM-2528-14	25.0	+0.040 +0.124	28.0	14.0
WSM-2528-15	25.0	+0.040 +0.124	28.0	15.0
WSM-2528-20	25.0	+0.040 +0.124	28.0	20.0
WSM-2528-25	25.0	+0.040 +0.124	28.0	25.0
WSM-2528-30	25.0	+0.040 +0.124	28.0	30.0
WSM-2630-16	26.0	+0.040 +0.124	30.0	16.0
WSM-2630-25	26.0	+0.040 +0.124	30.0	25.0
WSM-2830-10	28.0	+0.040 +0.124	30.0	10.0
WSM-2831-10	28.0	+0.040 +0.124	31.0	10.0
WSM-2832-20	28.0	+0.040 +0.124	32.0	20.0
WSM-2832-25	28.0	+0.040 +0.124	32.0	25.0
WSM-2832-30	28.0	+0.040 +0.124	32.0	30.0
WSM-3034-16	30.0	+0.040 +0.124	34.0	16.0
WSM-3034-20	30.0	+0.040 +0.124	34.0	20.0
WSM-3034-24	30.0	+0.040 +0.124	34.0	24.0
WSM-3034-25	30.0	+0.040 +0.124	34.0	25.0
WSM-3034-30	30.0	+0.040 +0.124	34.0	30.0
WSM-3034-36	30.0	+0.040 +0.124	34.0	36.0
WSM-3034-38	30.0	+0.040 +0.124	34.0	38.0
WSM-3034-40	30.0	+0.040 +0.124	34.0	40.0
WSM-3034-45	30.0	+0.040 +0.124	34.0	45.0
WSM-3236-20	32.0	+0.050 +0.150	36.0	20.0
WSM-3236-25	32.0	+0.050 +0.150	36.0	25.0
WSM-3236-30	32.0	+0.050 +0.150	36.0	30.0
WSM-3236-40	32.0	+0.050 +0.150	36.0	40.0
WSM-3539-20	35.0	+0.050 +0.150	39.0	20.0
WSM-3539-30	35.0	+0.050 +0.150	39.0	30.0
WSM-3539-40	35.0	+0.050 +0.150	39.0	40.0
WSM-3539-50	35.0	+0.050 +0.150	39.0	50.0
WSM-3540-07	35.0	+0.050 +0.150	40.0	7.0

* after pressfit. Testing methods ▶ page 45

Sleeve bearing

Dimensions [mm]

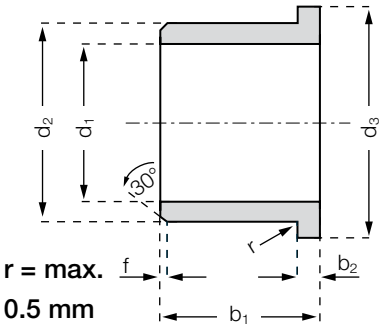
Part number	d1	d1-Tolerance*	d2	b1 h13
WSM-4044-20	40.0	+0.050 +0.150	44.0	20.0
WSM-4044-30	40.0	+0.050 +0.150	44.0	30.0
WSM-4044-40	40.0	+0.050 +0.150	44.0	40.0
WSM-4044-50	40.0	+0.050 +0.150	44.0	50.0
WSM-4550-30	45.0	+0.050 +0.150	50.0	30.0
WSM-4550-50	45.0	+0.050 +0.150	50.0	50.0
WSM-5055-20	50.0	+0.050 +0.150	55.0	20.0
WSM-5055-30	50.0	+0.050 +0.150	55.0	30.0
WSM-5055-40	50.0	+0.050 +0.150	55.0	40.0
WSM-5055-50	50.0	+0.050 +0.150	55.0	50.0

Part number	d1	d1-Tolerance*	d2	b1 h13
WSM-5560-40	55.0	+0.060 +0.180	60.0	40.0
WSM-5560-60	55.0	+0.060 +0.180	60.0	60.0
WSM-6065-30	60.0	+0.060 +0.180	65.0	30.0
WSM-6065-60	60.0	+0.060 +0.180	65.0	60.0
WSM-6570-60	65.0	+0.060 +0.180	70.0	60.0
WSM-7075-60	70.0	+0.060 +0.180	75.0	60.0
WSM-8085-100	80.0	+0.060 +0.180	85.0	100.0
WSM-9095-100	90.0	+0.072 +0.212	95.0	100.0
WSM-100105-100	100.0	+0.072 +0.212	105.0	100.0

* after pressfit. Testing methods ▶ page 45

iglidur® W300 | Product Range

Flange bearing



r = max. 0.5 mm

Order key

WFM-0304-03

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form F)
- Material iglidur® G

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
WFM-0304-03	3.0	+0.014 +0.054	4.5	7.5	3.0	0.75
WFM-0304-05	3.0	+0.014 +0.054	4.5	7.5	5.0	0.75
WFM-0405-03	4.0	+0.020 +0.068	5.5	9.5	3.0	0.75
WFM-0405-04	4.0	+0.020 +0.068	5.5	9.5	4.0	0.75
WFM-0405-06	4.0	+0.020 +0.068	5.5	9.5	6.0	0.75
WFM-0506-08	5.0	+0.010 +0.040	6.0	10.0	8.0	0.50
WFM-0507-04	5.0	+0.020 +0.068	7.0	11.0	4.0	1.00
WFM-0507-05	5.0	+0.020 +0.068	7.0	11.0	5.0	1.00
WFM-0608-04	6.0	+0.020 +0.068	8.0	12.0	4.0	1.00
WFM-0608-06	6.0	+0.020 +0.068	8.0	12.0	6.0	1.00
WFM-0608-08	6.0	+0.020 +0.068	8.0	12.0	8.0	1.00
WFM-0608-10	6.0	+0.020 +0.068	8.0	12.0	10.0	1.00
WFM-0608-15	6.0	+0.020 +0.068	8.0	12.0	15.0	1.00
WFM-0709-12	7.0	+0.025 +0.083	9.0	15.0	12.0	1.00
WFM-0810-02	8.0	+0.025 +0.083	10.0	15.0	2.7	1.00
WFM-0810-05	8.0	+0.025 +0.083	10.0	15.0	5.5	1.00
WFM-0810-07	8.0	+0.025 +0.083	10.0	15.0	7.5	1.00
WFM-0810-09	8.0	+0.025 +0.083	10.0	15.0	9.5	1.00
WFM-0810-10	8.0	+0.025 +0.083	10.0	15.0	10.0	1.00
WFM-0810-23	8.0	+0.025 +0.083	10.0	15.0	23.0	1.00
WFM-0810-30	8.0	+0.025 +0.083	10.0	15.0	30.0	1.00
WFM-081015-05	8.0	+0.025 +0.083	10.0	15.0	5.0	1.00
WFM-1012-04	10.0	+0.025 +0.083	12.0	18.0	4.0	1.00
WFM-1012-05	10.0	+0.025 +0.083	12.0	18.0	5.0	1.00
WFM-1012-06	10.0	+0.025 +0.083	12.0	18.0	6.0	1.00

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online www.igus.eu/eu/w300

Flange bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
WFM-1012-07	10.0	+0.025 +0.083	12.0	18.0	7.0	1.00
WFM-1012-09	10.0	+0.025 +0.083	12.0	18.0	9.0	1.00
WFM-1012-10	10.0	+0.025 +0.083	12.0	18.0	10.0	1.00
WFM-1012-12	10.0	+0.025 +0.083	12.0	18.0	12.0	1.00
WFM-1012-15	10.0	+0.025 +0.083	12.0	18.0	15.0	1.00
WFM-1012-17	10.0	+0.025 +0.083	12.0	18.0	17.0	1.00
WFM-1214-04	12.0	+0.032 +0.102	14.0	20.0	4.0	1.00
WFM-1214-044	12.0	+0.032 +0.102	14.0	20.0	4.4	1.00
WFM-1214-06	12.0	+0.032 +0.102	14.0	20.0	6.0	1.00
WFM-1214-07	12.0	+0.032 +0.102	14.0	20.0	7.0	1.00
WFM-1214-09	12.0	+0.032 +0.102	14.0	20.0	9.0	1.00
WFM-1214-10	12.0	+0.032 +0.102	14.0	20.0	10.0	1.00
WFM-1214-11	12.0	+0.032 +0.102	14.0	20.0	11.0	1.00
WFM-1214-12	12.0	+0.032 +0.102	14.0	20.0	12.0	1.00
WFM-1214-15	12.0	+0.032 +0.102	14.0	20.0	15.0	1.00
WFM-1214-17	12.0	+0.032 +0.102	14.0	20.0	17.0	1.00
WFM-1214-20	12.0	+0.032 +0.102	14.0	20.0	20.0	1.00
WFM-1315-06	13.0	+0.032 +0.102	15.0	22.0	6.0	1.00
WFM-1416-04	14.0	+0.032 +0.102	16.0	22.0	4.0	1.00
WFM-1416-05	14.0	+0.032 +0.102	16.0	22.0	5.0	1.00
WFM-1416-08	14.0	+0.032 +0.102	16.0	22.0	8.0	1.00
WFM-1416-12	14.0	+0.032 +0.102	16.0	22.0	12.0	1.00
WFM-1416-17	14.0	+0.032 +0.102	16.0	22.0	17.0	1.00
WFM-1416-29	14.0	+0.032 +0.102	16.0	22.0	29.0	1.00
WFM-1517-09	15.0	+0.032 +0.102	17.0	23.0	9.0	1.00
WFM-1517-12	15.0	+0.032 +0.102	17.0	23.0	12.0	1.00
WFM-1517-17	15.0	+0.032 +0.102	17.0	23.0	17.0	1.00
WFM-1517-20	15.0	+0.032 +0.102	17.0	23.0	20.0	1.00
WFM-1618-09	16.0	+0.032 +0.102	18.0	24.0	9.0	1.00
WFM-1618-12	16.0	+0.032 +0.102	18.0	24.0	12.0	1.00
WFM-1618-17	16.0	+0.032 +0.102	18.0	24.0	17.0	1.00
WFM-1719-12	17.0	+0.032 +0.102	19.0	25.0	12.0	1.00
WFM-1719-18	17.0	+0.032 +0.102	19.0	25.0	18.0	1.00
WFM-1719-25	17.0	+0.032 +0.102	19.0	25.0	25.0	1.00
WFM-1820-12	18.0	+0.032 +0.102	20.0	26.0	12.0	1.00
WFM-1820-17	18.0	+0.032 +0.102	20.0	26.0	17.0	1.00
WFM-1820-22	18.0	+0.032 +0.102	20.0	26.0	22.0	1.00
WFM-2023-11	20.0	+0.040 +0.124	23.0	30.0	11.5	1.50
WFM-2023-14	20.0	+0.040 +0.124	23.0	30.0	14.0	1.50
WFM-2023-16	20.0	+0.040 +0.124	23.0	30.0	16.5	1.50
WFM-2023-21	20.0	+0.040 +0.124	23.0	30.0	21.5	1.50
WFM-2427-10	24.0	+0.040 +0.124	27.0	32.0	10.0	1.50

iglidur® W300 | Product Range

Flange bearing

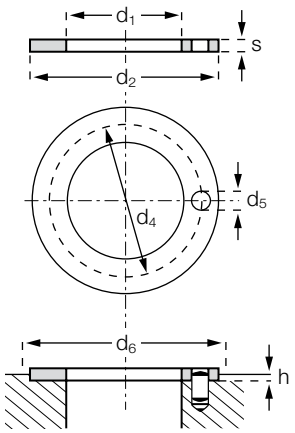
Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
WFM-2528-11	25.0	+0.040 +0.124	28.0	35.0	11.0	1.50
WFM-2528-16	25.0	+0.040 +0.124	28.0	35.0	16.0	1.50
WFM-2528-21	25.0	+0.040 +0.124	28.0	35.0	21.0	1.50
WFM-2528-30	25.0	+0.040 +0.124	28.0	32.0	30.0	1.50
WFM-252831-13	25.0	+0.040 +0.124	28.0	31.0	13.0	1.50
WFM-2830-36	28.0	+0.040 +0.124	30.0	35.0	36.0	1.00
WFM-3034-10	30.0	+0.040 +0.124	34.0	42.0	10.0	2.00
WFM-3034-16	30.0	+0.040 +0.124	34.0	42.0	16.0	2.00
WFM-3034-26	30.0	+0.040 +0.124	34.0	42.0	26.0	2.00
WFM-3034-37	30.0	+0.040 +0.124	34.0	42.0	37.0	2.00
WFM-3236-16	32.0	+0.050 +0.150	36.0	40.0	16.0	2.00
WFM-3236-26	32.0	+0.050 +0.150	36.0	40.0	26.0	2.00
WFM-3539-16	35.0	+0.050 +0.150	39.0	47.0	16.0	2.00
WFM-3539-26	35.0	+0.050 +0.150	39.0	47.0	26.0	2.00
WFM-353950-35	35.0	+0.050 +0.150	39.0	50.0	35.0	2.00
WFM-3842-22	38.0	+0.050 +0.150	42.0	50.0	22.0	2.00
WFM-4044-30	40.0	+0.050 +0.150	44.0	52.0	30.0	2.00
WFM-4044-40	40.0	+0.050 +0.150	44.0	52.0	40.0	2.00
WFM-4550-50	45.0	+0.050 +0.150	50.0	58.0	50.0	2.00
WFM-5055-40	50.0	+0.050 +0.150	55.0	63.0	40.0	2.00
WFM-5055-50	50.0	+0.050 +0.150	55.0	63.0	50.0	2.00
WFM-5560-60	55.0	+0.060 +0.180	60.0	68.0	60.0	2.00
WFM-5762-40	57.0	+0.060 +0.180	62.0	67.0	40.0	2.00
WFM-6065-60	60.0	+0.060 +0.180	65.0	73.0	60.0	2.00
WFM-6570-60	65.0	+0.060 +0.180	70.0	78.0	60.0	2.00
WFM-7075-100	70.0	+0.060 +0.180	75.0	83.0	100.0	2.50
WFM-7580-100	75.0	+0.060 +0.180	80.0	88.0	100.0	2.50
WFM-8085-100	80.0	+0.060 +0.180	85.0	93.0	100.0	2.50
WFM-9095-100	90.0	+0.072 +0.212	95.0	103.0	100.0	2.50
WFM-100105-100	100.0	+0.072 +0.212	105.0	113.0	100.0	2.50
WFM-120125-100	120.0	+0.072 +0.212	125.0	133.0	100.0	2.50

* after pressfit. Testing methods ▶ page 45

iglidur® W300 | Product Range

Thrust washer



Order key

WTM-0509-006

- Thickness s
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form T)
- Material iglidur® G

Dimensions according to ISO 3547-1 and special dimensions

Dimensions [mm]

Part number	d1 +0.25	d2 –0.25	s –0.05	d4 –0.12 +0.12	d5 +0.375 +0.125	h +0.2 –0.2	d6 +0.12
WTM-0509-006	5.0	9.5	0.6	**	**	0.3	9.5
WTM-0620-015	6.0	20.0	1.5	13.0	1.5	1.0	20.0
WTM-0818-015	8.0	18.0	1.5	13.0	1.5	1.0	18.0
WTM-1018-010	10.0	18.0	1.0	**	**	0.7	18.0
WTM-1018-015	10.0	18.0	1.5	**	**	1.0	18.0
WTM-1224-015	12.0	24.0	1.5	18.0	1.5	1.0	24.0
WTM-1426-015	14.0	26.0	1.5	20.0	2.0	1.0	26.0
WTM-1524-015	15.0	24.0	1.5	19.5	1.5	1.0	24.0
WTM-1630-015	16.0	30.0	1.5	23.0	2.0	1.0	30.0
WTM-1832-015	18.0	32.0	1.5	25.0	2.0	1.0	32.0
WTM-1844-015	18,0	44,0	1,5	30,0	7,0	1,0	44,0
WTM-2036-015	20.0	36.0	1.5	28.0	3.0	1.0	36.0
WTM-2238-015	22.0	38.0	1.5	30.0	3.0	1.0	38.0
WTM-2442-015	24.0	42.0	1.5	33.0	3.0	1.0	42.0
WTM-2644-015	26.0	44.0	1.5	35.0	3.0	1.0	44.0
WTM-2848-015	28.0	48.0	1.5	38.0	4.0	1.0	48.0
WTM-3254-015	32.0	54.0	1.5	43.0	4.0	1.0	54.0
WTM-3862-015	38.0	62.0	1.5	50.0	4.0	1.0	62.0
WTM-4266-015	42.0	66.0	1.5	54.0	4.0	1.0	66.0
WTM-4874-020	48.0	74.0	2.0	61.0	4.0	1.5	74.0
WTM-5278-020	52.0	78.0	2.0	65.0	4.0	1.5	78.0
WTM-6290-020	62.0	90.0	2.0	76.0	4.0	1.5	90.0
WTM-82110-020	82.0	110.0	2.0	**	**	1.5	110.0
WTM-102130-020	102.0	130.0	2.0	**	**	1.5	130.0
WTM-120150-020	120.0	150.0	2.0	**	**	1.5	150.0

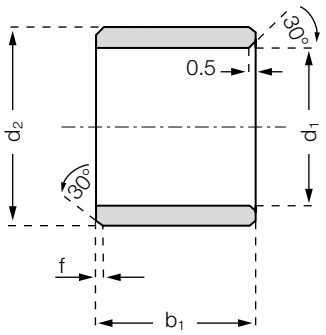
** Design without fixing bore

delivery time from stock

prices price list online
www.igus.eu/eu/w300

iglidur® W300 | Product Range | Inch

Sleeve bearing



Order key

WSI-0203-03

- Length b1
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form S)
- Material iglidur® W300

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

d1 [Inch]:	Ø 0,040–0,236	Ø 0,236–0,472	Ø 0,472–1,18	Ø > 1,18
f [Inch]:	0.012	0.019	0.031	0.047

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
WSI-0203-03	1/8	3/16	3/16	.1269	.1251	.1878	.1873	.1243	.1236
WSI-0203-04	1/8	3/16	1/4	.1269	.1251	.1878	.1873	.1243	.1236
WSI-0203-06	1/8	3/16	3/8	.1269	.1251	.1878	.1873	.1243	.1236
WSI-0304-04	3/16	1/4	1/4	.1892	.1873	.2503	.2497	.1865	.1858
WSI-0304-06	3/16	1/4	3/8	.1892	.1873	.2503	.2497	.1865	.1858
WSI-0304-08	3/16	1/4	1/2	.1892	.1873	.2503	.2497	.1865	.1858
WSI-0405-03	1/4	5/16	3/16	.2521	.2498	.3128	.3122	.2490	.2481
WSI-0405-04	1/4	5/16	1/4	.2521	.2498	.3128	.3122	.2490	.2481
WSI-0405-05	1/4	5/16	5/16	.2521	.2498	.3128	.3122	.2490	.2481
WSI-0405-06	1/4	5/16	3/8	.2521	.2498	.3128	.3122	.2490	.2481
WSI-0405-08	1/4	5/16	1/2	.2521	.2498	.3128	.3122	.2490	.2481
WSI-0506-04	5/16	3/8	1/4	.3148	.3125	.3753	.3747	.3115	.3106
WSI-0506-06	5/16	3/8	3/8	.3148	.3125	.3753	.3747	.3115	.3106
WSI-0506-08	5/16	3/8	1/2	.3148	.3125	.3753	.3747	.3115	.3106
WSI-0506-12	5/16	3/8	3/4	.3148	.3125	.3753	.3747	.3115	.3106
WSI-0607-04	3/8	15/32	1/4	.3773	.3750	.4691	.4684	.3740	.3731
WSI-0607-06	3/8	15/32	3/8	.3773	.3750	.4691	.4684	.3740	.3731
WSI-0607-07	3/8	15/32	7/16	.3773	.3750	.4691	.4684	.3740	.3731
WSI-0607-08	3/8	15/32	1/2	.3773	.3750	.4691	.4684	.3740	.3731
WSI-0607-12	3/8	15/32	3/4	.3773	.3750	.4691	.4684	.3740	.3731
WSI-0608-12	3/8	17/32	3/4	.3773	.3750	.5316	.5309	.3740	.3731
WSI-0708-04	7/16	17/32	1/4	.4406	.4379	.5316	.5309	.4365	.4355
WSI-0708-08	7/16	17/32	1/2	.4406	.4379	.5316	.5309	.4365	.4355
WSI-0809-03	1/2	19/32	3/16	.5030	.5003	.5941	.5934	.4990	.4980
WSI-0809-04	1/2	19/32	1/4	.5030	.5003	.5941	.5934	.4990	.4980

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online
www.igus.eu/eu/w300

Sleeve bearing

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
WSI-0809-06	1/2	19/32	3/8	.5030	.5003	.5941	.5934	.4990	.4980
WSI-0809-08	1/2	19/32	1/2	.5030	.5003	.5941	.5934	.4990	.4980
WSI-0809-10	1/2	19/32	5/8	.5030	.5003	.5941	.5934	.4990	.4980
WSI-0809-12	1/2	19/32	3/4	.5030	.5003	.5941	.5934	.4990	.4980
WSI-0809-16	1/2	19/32	1	.5030	.5003	.5941	.5934	.4990	.4980
WSI-0810-08	1/2	5/8	1/2	.5040	.5013	.6260	.6250	.5000	.4990
WSI-0810-10	1/2	5/8	5/8	.5040	.5013	.6260	.6250	.5000	.4990
WSI-0810-12	1/2	5/8	3/4	.5040	.5013	.6260	.6250	.5000	.4990
WSI-0810-16	1/2	5/8	1	.5040	.5013	.6260	.6250	.5000	.4990
WSI-0910-08	9/16	5/8	1/2	.5655	.5627	.6566	.6559	.5615	.5605
WSI-0910-12	9/16	5/8	3/4	.5655	.5627	.6566	.6559	.5615	.5605
WSI-1011-04	5/8	23/32	1/4	.6280	.6253	.7192	.7184	.6240	.6230
WSI-1011-06	5/8	23/32	3/8	.6280	.6253	.7192	.7184	.6240	.6230
WSI-1011-08	5/8	23/32	1/2	.6280	.6253	.7192	.7184	.6240	.6230
WSI-1011-10	5/8	23/32	5/8	.6280	.6253	.7192	.7184	.6240	.6230
WSI-1011-12	5/8	23/32	3/4	.6280	.6253	.7192	.7184	.6240	.6230
WSI-1011-16	5/8	23/32	1	.6280	.6253	.7192	.7184	.6240	.6230
WSI-1112-12	11/16	25/32	3/4	.6906	.6879	.7817	.7809	.6865	.6855
WSI-1214-08	3/4	7/8	1/2	.7541	.7507	.8755	.8747	.7491	.7479
WSI-1214-12	3/4	7/8	3/4	.7541	.7507	.8755	.8747	.7491	.7479
WSI-1214-16	3/4	7/8	1	.7541	.7507	.8755	.8747	.7491	.7479
WSI-1214-24	3/4	7/8	1 1/2	.7541	.7507	.8755	.8747	.7491	.7479
WSI-1416-04	7/8	1	1/4	.8791	.8757	1.0005	.9997	.8741	.8729
WSI-1416-06	7/8	1	3/8	.8791	.8757	1.0005	.9997	.8741	.8729
WSI-1416-08	7/8	1	1/2	.8791	.8757	1.0005	.9997	.8741	.8729
WSI-1416-10	7/8	1	5/8	.8791	.8757	1.0005	.9997	.8741	.8729
WSI-1416-12	7/8	1	3/4	.8791	.8757	1.0005	.9997	.8741	.8729
WSI-1416-16	7/8	1	1	.8791	.8757	1.0005	.9997	.8741	.8729
WSI-1416-24	7/8	1	1 1/2	.8791	.8757	1.0005	.9997	.8741	.8729
WSI-1618-06	1	1 1/8	3/8	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WSI-1618-08	1	1 1/8	1/2	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WSI-1618-12	1	1 1/8	3/4	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WSI-1618-16	1	1 1/8	1	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WSI-1618-20	1	1 1/8	1 5/16	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WSI-1618-22	1	1 1/8	1 3/8	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WSI-1618-24	1	1 1/8	1 1/2	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WSI-1820-12	1 1/8	1 9/32	3/4	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
WSI-2022-14	1 1/4	1 13/32	7/8	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
WSI-2022-16	1 1/4	1 13/32	1	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
WSI-2022-20	1 1/4	1 13/32	1 1/4	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
WSI-2022-24	1 1/4	1 13/32	1 1/2	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
WSI-2224-16	1 3/8	1 17/32	1	1.3798	1.3758	1.5318	1.5308	1.3738	1.3722

iglidur® W300 | Product Range | Inch

Sleeve bearing

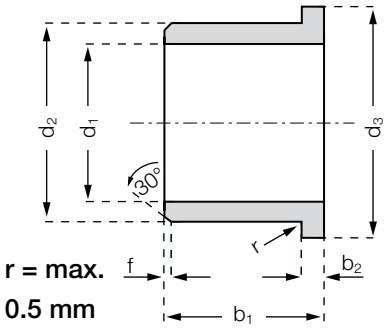
Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
WSI-2224-24	1 3/8	1 17/32	1 1/2	1.3798	1.3758	1.5318	1.5308	1.3738	1.3722
WSI-2426-12	1 1/2	1 21/32	3/4	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
WSI-2426-16	1 1/2	1 21/32	1	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
WSI-2426-24	1 1/2	1 21/32	1 1/2	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
WSI-2426-44	1 1/2	1 21/32	2 3/4	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
WSI-2629-16	1 5/8	1 25/32	1	1.6297	1.6258	1.7818	1.7808	1.6238	1.6222
WSI-2629-20	1 5/8	1 25/32	1 1/4	1.6297	1.6258	1.7818	1.7808	1.6238	1.6222
WSI-2831-16	1 3/4	1 15/16	1	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
WSI-2831-24	1 3/4	1 15/16	1 1/2	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
WSI-2831-32	1 3/4	1 15/16	2	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
WSI-2831-48	1 3/4	1 15/16	3	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
WSI-3235-16	2	2 3/16	1	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
WSI-3235-24	2	2 3/16	1 1/2	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
WSI-3235-32	2	2 3/16	2	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
WSI-3639-32	2 1/4	2 7/16	2	2.2577	2.2531	2.4377	2.4365	2.2507	2.2489

* after pressfit. Testing methods ▶ page 45

iglidur® W300 | Product Range | Inch

Flange bearing



Order key

WFI-0203-03

- Length b1
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form F)
- Material iglidur® W300

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

d1 [Inch]:	Ø 0,040–0,236	Ø 0,236–0,472	Ø 0,472–1,18	Ø > 1,18
f [Inch]:	0.012	0.019	0.031	0.047

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft aize	
						max.	min.	max.	min.	max.	min.
WFI-0203-03	1/8	3/16	3/16	.312	.032	.1269	.1251	.1878	.1873	.1243	.1236
WFI-0203-04	1/8	3/16	1/4	.312	.032	.1269	.1251	.1878	.1873	.1243	.1236
WFI-0203-06	1/8	3/16	3/8	.312	.032	.1269	.1251	.1878	.1873	.1243	.1236
WFI-0304-02	3/16	1/4	1/8	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
WFI-0304-04	3/16	1/4	1/4	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
WFI-0304-06	3/16	1/4	3/8	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
WFI-0304-08	3/16	1/4	1/2	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
WFI-0405-04	1/4	5/16	1/4	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
WFI-0405-05	1/4	5/16	5/16	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
WFI-0405-06	1/4	5/16	3/8	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
WFI-0405-08	1/4	5/16	1/2	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
WFI-0405-12	1/4	5/16	3/4	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
WFI-0506-04	5/16	3/8	1/4	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
WFI-0506-06	5/16	3/8	3/8	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
WFI-0506-08	5/16	3/8	1/2	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
WFI-0506-12	5/16	3/8	3/4	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
WFI-0607-04	3/8	15/32	1/4	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
WFI-0607-06	3/8	15/32	3/8	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
WFI-0607-08	3/8	15/32	1/2	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
WFI-0607-12	3/8	15/32	3/4	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
WFI-0708-08	7/16	17/32	1/2	.750	.046	.4406	.4379	.5316	.5309	.4365	.4355
WFI-0809-04	1/2	19/32	1/4	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
WFI-0809-06	1/2	19/32	3/8	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
WFI-0809-08	1/2	19/32	1/2	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
WFI-0809-12	1/2	19/32	3/4	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980

* after pressfit. Testing methods ▶ page 45

delivery time **from stock**

prices **price list online**
www.igus.eu/eu/w300

iglidur® W300 | Product Range | Inch

Flange bearing

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft aize	
						max.	min.	max.	min.	max.	min.
WFI-0809-16	1/2	19/32	1	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
WFI-1011-045	5/8	23/32	9/32	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
WFI-1011-08	5/8	23/32	1/2	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
WFI-1011-12	5/8	23/32	3/4	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
WFI-1011-16	5/8	23/32	1	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
WFI-1011-24	5/8	23/32	1 1/2	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
WFI-1214-08	3/4	7/8	1/2	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
WFI-1214-10	3/4	7/8	5/8	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
WFI-1214-12	3/4	7/8	3/4	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
WFI-1214-16	3/4	7/8	1	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
WFI-1214-24	3/4	7/8	1 1/2	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
WFI-1416-04	7/8	1	1/4	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-1416-075	7/8	1	15/32	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-1416-08	7/8	1	1/2	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-1416-115	7/8	1	23/32	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-1416-12	7/8	1	3/4	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-1416-16	7/8	1	1	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-1416-20	7/8	1	1 1/4	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-1416-24	7/8	1	1 1/2	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-141618-10	7/8	1	5/8	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-141620-11	7/8	1	11/16	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
WFI-1618-08	1	1 1/8	1/2	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WFI-1618-12	1	1 1/8	3/4	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WFI-1618-16	1	1 1/8	1	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WFI-1618-20	1	1 1/8	1 1/4	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WFI-1618-24	1	1 1/8	1 1/2	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
WFI-1820-08	1 1/8	1 9/32	1/2	1.562	.078	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
WFI-1820-12	1 1/8	1 9/32	3/4	1.562	.078	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
WFI-1820-24	1 1/8	1 9/32	1 1/2	1.562	.078	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
WFI-2022-12	1 1/4	1 13/32	3/4	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
WFI-2022-14	1 1/4	1 13/32	7/8	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
WFI-2022-16	1 1/4	1 13/32	1	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
WFI-2022-20	1 1/4	1 13/32	1 1/4	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
WFI-2022-24	1 1/4	1 13/32	1 1/2	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
WFI-2224-16	1 3/8	1 17/32	1	1.875	.078	1.3798	1.3758	1.5318	1.5308	1.3738	1.3722
WFI-2426-12	1 1/2	1 21/32	3/4	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
WFI-2426-16	1 1/2	1 21/32	1	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
WFI-2426-24	1 1/2	1 21/32	1 1/2	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
WFI-2831-16	1 3/4	1 15/16	1	2.375	.093	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
WFI-2831-24	1 3/4	1 15/16	1 1/2	2.375	.093	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
WFI-2831-32	1 3/4	1 15/16	2	2.375	.093	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
WFI-3235-16	2	2 3/16	1	2.625	.093	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969

* after pressfit. Testing methods ▶ page 45

iglidur® W300 | Product Range | Inch

Flange bearing

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft aize	
						max.	min.	max.	min.	max.	min.
WFI-3235-24	2	2 3/16	1 1/2	2.625	.093	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
WFI-3235-32	2	2 3/16	2	2.625	.093	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online
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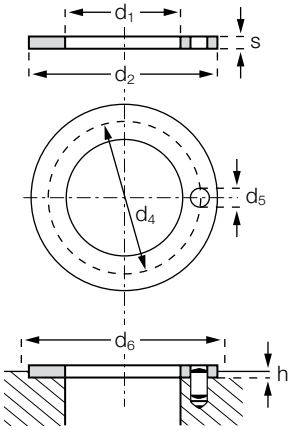
iglidur® W300 | Product Range | Inch

Thrust washer



Order key

WTI-0814-01

- Thickness s
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form T)
- Material iglidur® W300

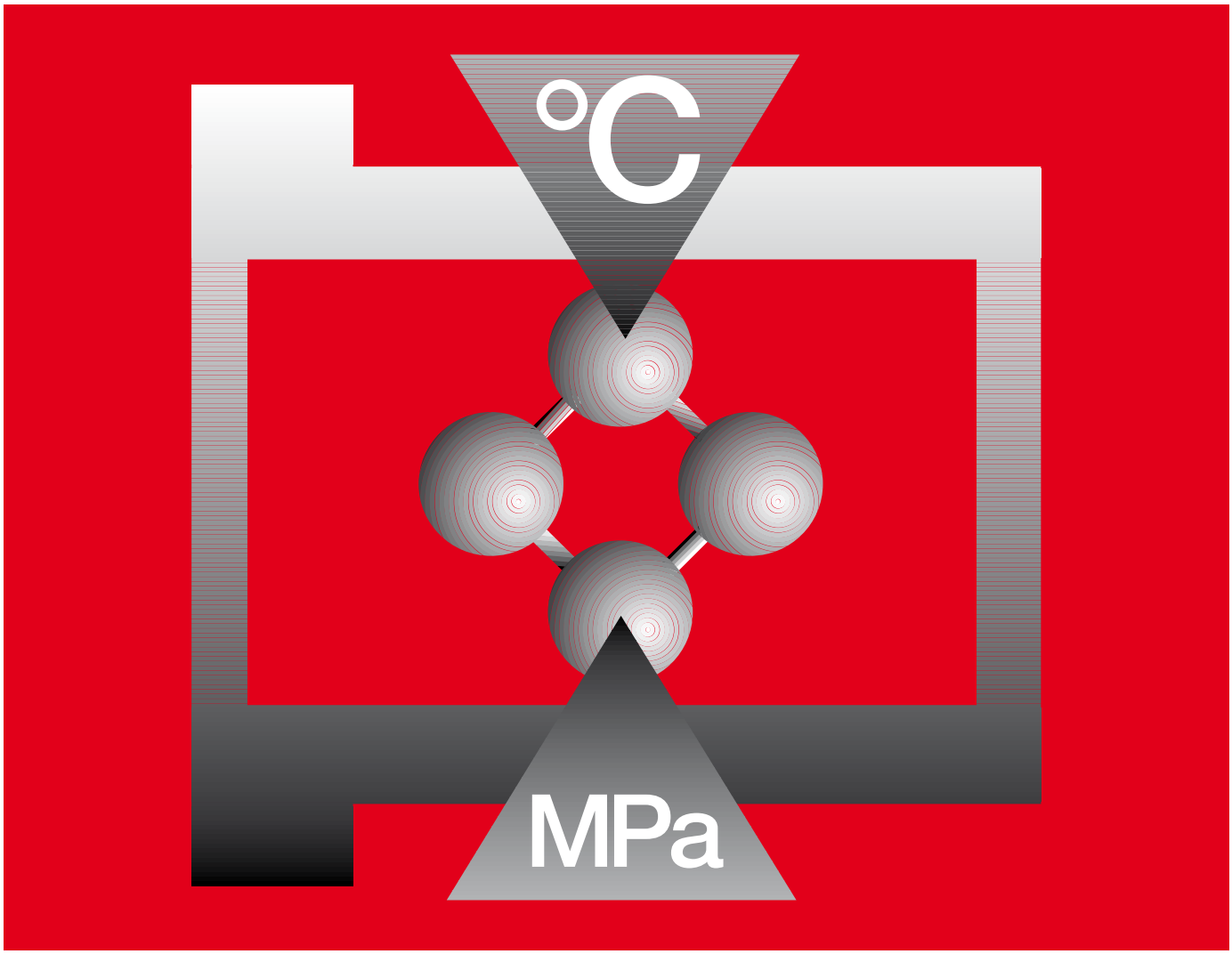
Dimensions according to ISO 3547-1 and special dimensions

Dimensions [Inch]

Part number	d1	d2	s	d4	d5	h	d6
	+.010	-.010	-.0020	±.005	.015 + .005	+.008	+.005
WTI-0814-01	.500	.875	.0585	.692	.067	.040	.875
WTI-1018-01	.625	1.125	.0585	.880	.099	.040	1.125
WTI-1220-01	.750	1.250	.0585	1.005	.099	.040	1.250
WTI-1424-01	.875	1.500	.0585	1.192	.130	.040	1.500
WTI-1628-01	1.000	1.750	.0585	1.380	.130	.040	1.750
WTI-2034-01	1.250	2.125	.0585	1.692	.161	.040	2.125
WTI-2440-01	1.500	2.500	.0585	2.005	.192	.040	2.500
WTI-2844-01	1.750	2.750	.0585	2.255	.192	.040	2.750
WTI-3248-01	2.000	3.000	.0895	2.505	.192	.070	3.000

delivery time **from stock**

prices **price list online** www.igus.eu/eu/w300



iglidur® X – The High-Tech Problem Solver: chemical- and temperature-resistant up to +250 °C

- Over 250 dimensions available from stock
- Temperature resistant from –100 °C to +250 °C in continuous operation
- Universal resistance to chemicals
- High compressive strength
- Very low moisture absorption
- Excellent wear resistance through the entire temperature range

iglidur® X | The High-Tech Problem Solver

Chemical- and temperature resistant up to +250 °C. iglidur® X is defined by its combination of high temperature resistance with compressive strength, along with high resistance to chemicals. iglidur® X is designed for higher speeds than other iglidur® bearings.

Temperature resistant from –100 °C to +250 °C in continuous operation

Universal resistance to chemicals

High compressive strength

Very low moisture absorption

Excellent wear resistance through the entire temperature range

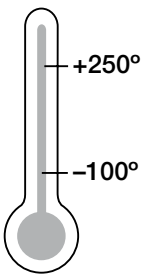
When to use it?

- For pressure loads up to 150 MPa
- For linear movements with stainless steel at high temperatures
- Universal resistance to chemicals
- Temperature resistant from –100 °C to +250 °C in continuous operation (short term to +315 °C)
- Very low moisture absorption
- High wear resistance over the entire temperature range

When not to use it?

- For very low wear at high loads
  - ▶ iglidur® Q, page 451
  - ▶ iglidur® Z, page 289
- For economical underwater applications
  - ▶ iglidur® H, page 315
  - ▶ iglidur® H370, page 337
- For edge pressure
  - ▶ iglidur® Z, page 289

Temperature



Product range

3 types
> 250 dimensions
Ø 2–75 mm

iglidur® X | Application Examples

Typical sectors of industry and application areas

● Beverage technology ● Woodworking ● Plastic processing industry ● Aerospace engineering ● Cleanroom etc.

Improve technology and reduce costs – 310 exciting examples for iglidur® plain bearings online

▶ www.igus.eu/iglidur-applications

▶ www.igus.eu/bottle-filling

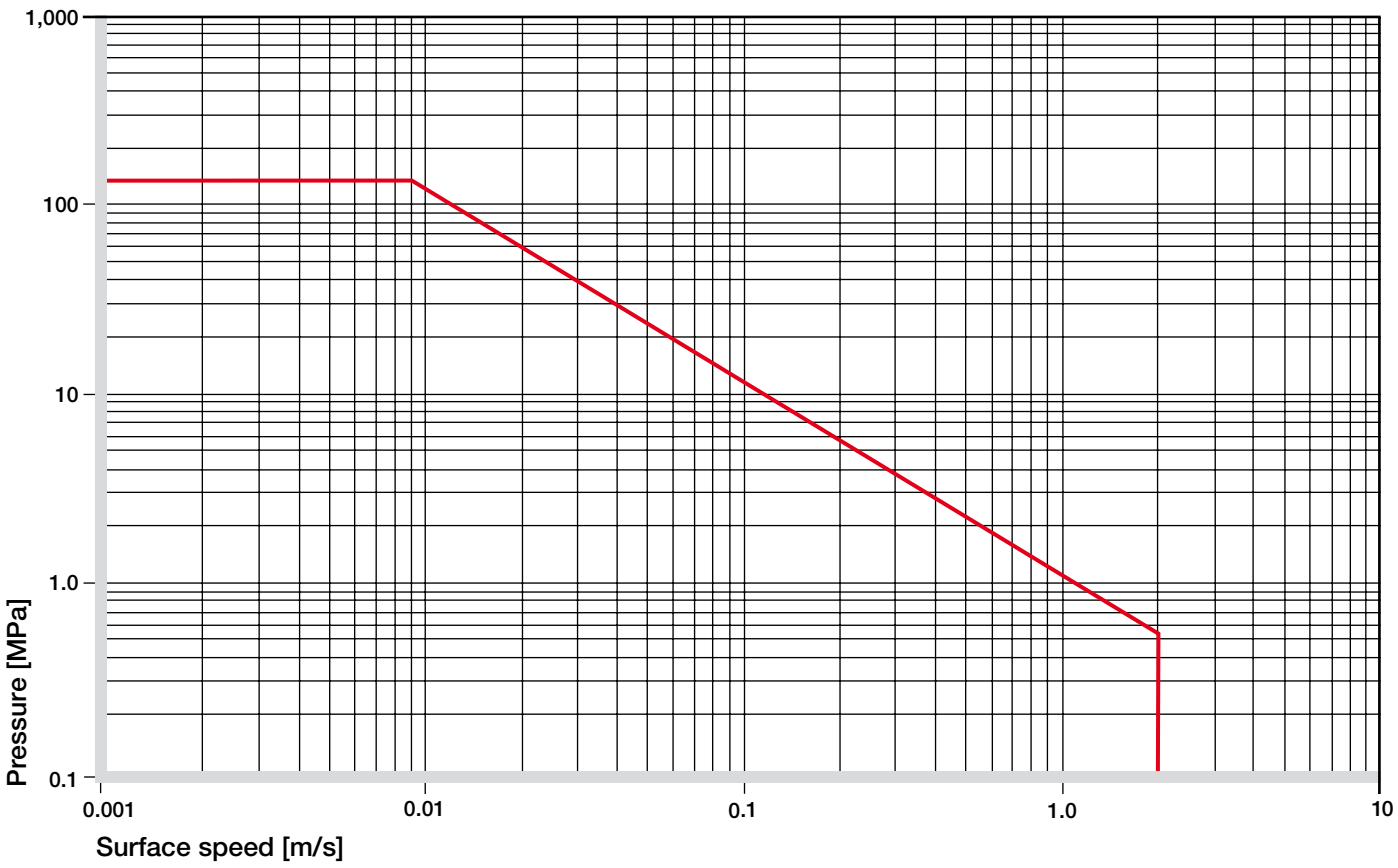
▶ www.igus.eu/drillrig

▶ www.igus.eu/ultraviolet-radiation

▶ www.igus.eu/flangedball-valves

Material data			
General properties	**Unit**	**iglidur® X**	**Testing method**
Density	**g/cm³**	1.44	
Colour		black	
Max. moisture absorption at +23 °C/50 % r.h.	**% weight**	0.1	DIN 53495
Max. moisture absorption	**% weight**	0.5	
Coefficient of sliding friction, dynamic against steel	**µ**	0.09–0.27	
pv value, max. (dry)	**MPa · m/s**	1.32	
Mechanical properties			
Modulus of elasticity	**MPa**	8,100	DIN 53457
Tensile strength at +20 °C	**MPa**	170	DIN 53452
Compressive strength	**MPa**	100	
Max. static surface pressure (+20 °C)	**MPa**	150	
Shore-D Hardness		85	DIN 53505
Physical and thermal properties			
Max. long term application temperature	**°C**	+250	
Max. short term application temperature	**°C**	+315	
Min. application temperature	**°C**	–100	
Thermal conductivity	**W/m · K**	0.6	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	**$K^{-1} \cdot 10^{-5}$**	5	DIN 53752
Electrical properties			
Specific volume resistance	**Ωcm**	< 10^5	DIN IEC 93
Surface resistance	**Ω**	< 10^3	DIN 53482

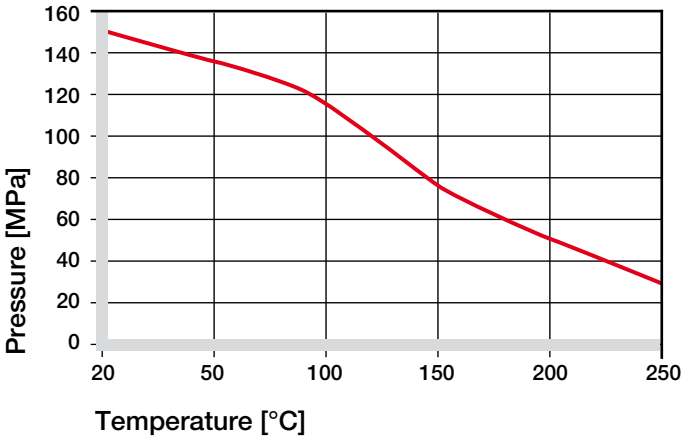
Table 01: Material data



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

Mechanical Properties

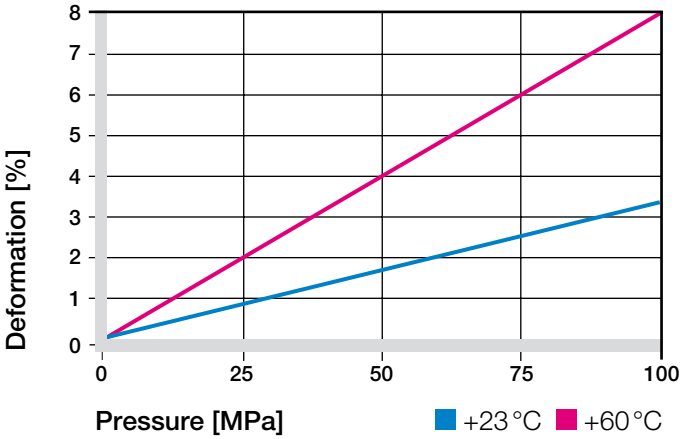
The recommended maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this. With increasing temperatures, the compressive strength of iglidur® X plain bearings decreases. The Graph 02 shows this inverse relationship. However, at the longterm maximum temperature of +250 °C the permissible surface pressure is almost 32 MPa.



Graph 02: Recommended maximum surface pressure as a function of temperature (150 MPa at +20 °C)

iglidur® X has an excellent combination of high temperature resistance, high compressive strength, and excellent resistance to chemicals. The aspect of temperature resistance and pressure susceptibiluty is also reflected in the pv diagram.
Graph 03 shows how iglidur® X plain bearings deform elastically under load.

▶ Surface Pressure, **page 33**



Graph 03: Deformation under pressure and temperature

Permissible Surface Speeds

iglidur® X is designed for higher speeds than other iglidur® bearings. This is due to its high temperature resistance and excellent thermal conductivity. One benefit of this is seen in the maximum pV value of 1.32 MPa · m/s.
However, in this case, only the smallest radial loads may act on the bearings. At the given speeds, friction can cause a temperature increase to maximum permissible levels.

▶ Surface Speed, **page 35**

m/s	Rotating	Oscillating	Linear
Continuous	1.5	1.1	5
Short term	3.5	2.5	10

Table 02: Maximum running speed

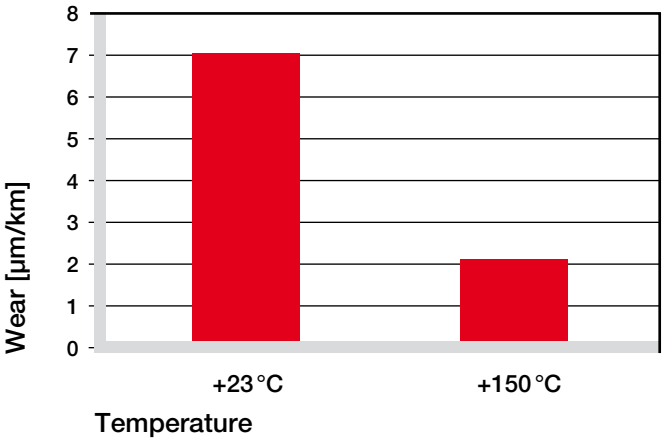
Temperatures

In terms of temperature resistance iglidur® X has also taken on a leading position. Having a permissible long term application, temperature of +250 °C, iglidur® X will even withstand +315 °C short term.As with all thermoplastics, the compression resistance of iglidur® X decreases with increasing temperature. However, the wear drops considerably when used within the observed temperature range of +23 °C to +150 °C.
In certain cases, relaxation of the bearing can even occur at temperatures of more than +170 °C. This leads, after re-cooling, to the bearing moving out of the housing. At temperatures over +170 °C the axial security of the bearing in the housing needs to be tested. If necessary, secondary measures must be taken to mechanically secure the bearing. Please contact us if you have questions on bearing use.

▶ Application Temperatures, **page 36**

iglidur® X	Application temperature
Minimum	–100 °C
Max. long term	+250 °C
Max. short term	+315 °C
Add. securing is required from	+135 °C

Table 03: Temperature limits

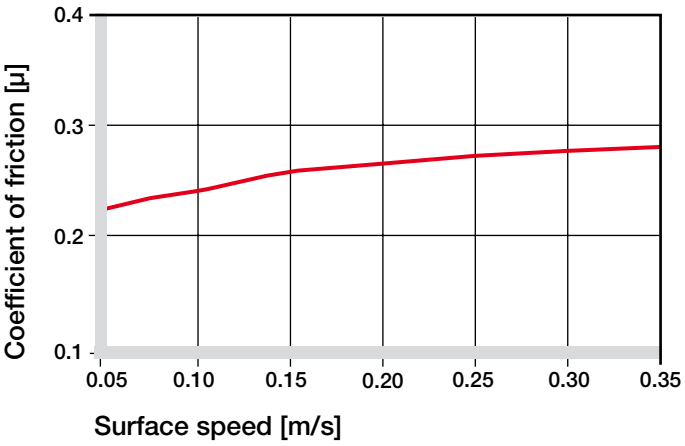


Graph 04: Wear, rotation with p = 0.75 MPa, v = 0.5 m/s, Cf53 hardended and ground steel shaft

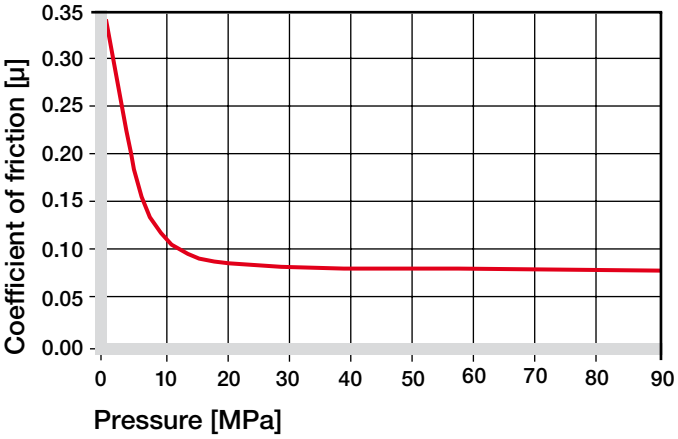
Friction and Wear

Similar to wear resistance, the coefficient of friction also changes with the load. The coefficient of friction increases with an increase in surface speed. On the other hand, an increased load has an inverse effect: the coefficient of friction decreases (see Graphs 05 and 06). This explains the excellent performance of iglidur® X plain bearings for high loads.

▶ Coefficients of Friction and Surfaces, **page 38**
▶ Wear Resistance, **page 39**



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

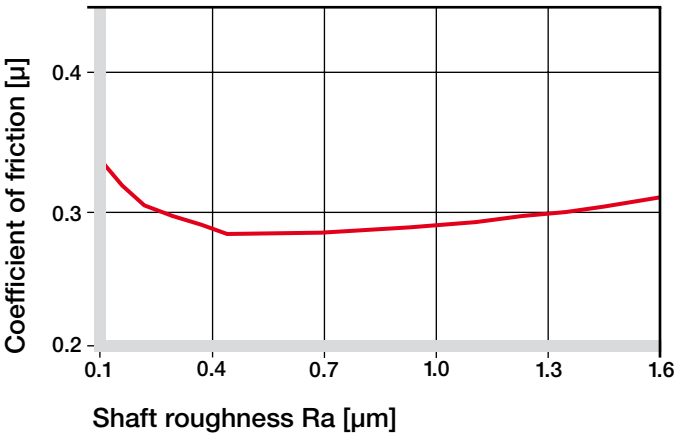


Graph 06: Coefficient of friction as function of the shaft surface (Cf53 hardened and ground steel)

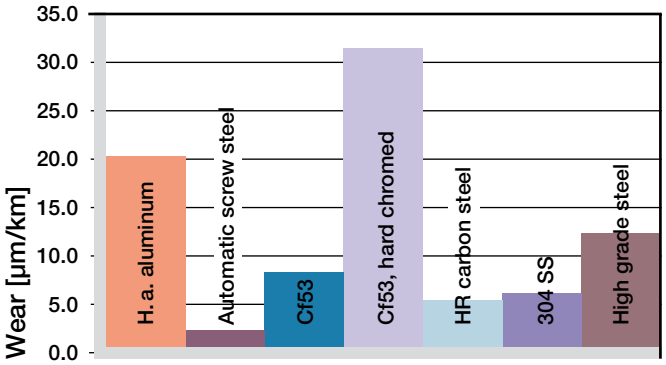
Shaft Materials

Friction and wear, to a high degree, are also dependent on the shaft material. Shafts that are too smooth increase the coefficient of friction of the bearing. Ground surfaces with an average roughness Ra of 0.6 to 0.8 µm are ideal. Graphs 07 to 10 show results of testing different shaft materials with plain bearings made of iglidur® X. For low loads in rotating operation, the best wear values are found with 303 Stainless and HR Carbon Steel shafts. However, above a load of 2 MPa the bearing wear greatly increases with these two shaft materials. For the higher load range, hard chromed shafts or Cf53 shafts give good results. In oscillating operation at low loads, similar wear values for Cf53 and 303 stainless steel shafts occur. The wear is somewhat higher than during rotational movements.
If the shaft material you plan to use is not contained in this list, please contact us.

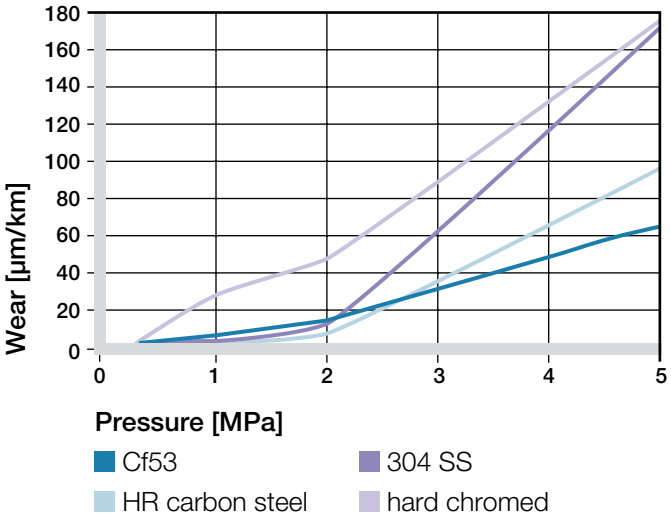
▶ Shaft Materials, **page 41**



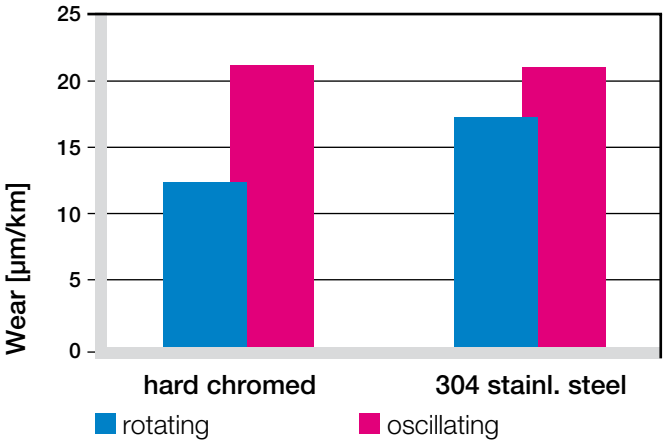
Graph 07: Coefficient of friction as function of the shaft surface (Cf53 hardened and ground steel)



Graph 08: Wear, rotating with different shaft materials, pressure p = 0.75 MPa, v = 0.5 m/s



Graph 09: Wear with different shaft materials in rotational operation, as a function of the pressure



Graph 10: Wear for rotating and oscillating applications with different shaft materials, p = 2 MPa

iglidur® X	Dry	Greases	Oil	Water
C. o. f. µ	0,09–0.27	0.09	0.04	0.04

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

Additional Properties

Chemical Resistance

iglidur® X plain bearings have almost universal chemical resistance. The material is only attacked by concentrated acids.

▶ Chemical Table, **page 974**

Medium	Resistance
Alcohol	+
Hydrocarbons	+
Greases, oils without additives	+
Fuels	+
Diluted acids	+
Strong acids	–
Diluted alkalines	+
Strong alkalines	+

+ resistant 0 conditionally resistant – not resistant
All data given at room temperature [+20 °C]
Table 05: Chemical resistance

Radiation Resistance

Plain bearings made from iglidur® X are resistant to radiation up to an intensity of $1 \cdot 10^5$ Gy. iglidur® X is the most radioactive resistant material of the iglidur® product range. iglidur® X is extremely resistant to hard gamma radiation and withstands a radiation dose of 1,000 Mrad without detectable change in its properties. The material also withstands an alpha or beta radiation of 10,000 Mrad with practically no damage.

UV Resistance

The excellent material properties of iglidur® X do not change under UV radiation and other weathering effects.

Vacuum

In a vacuum environment iglidur® X plain bearings can be used virtually without restrictions. Outgassing takes place to a very limited extent.

Electrical Properties

iglidur® X plain bearings are are electrically conductive.

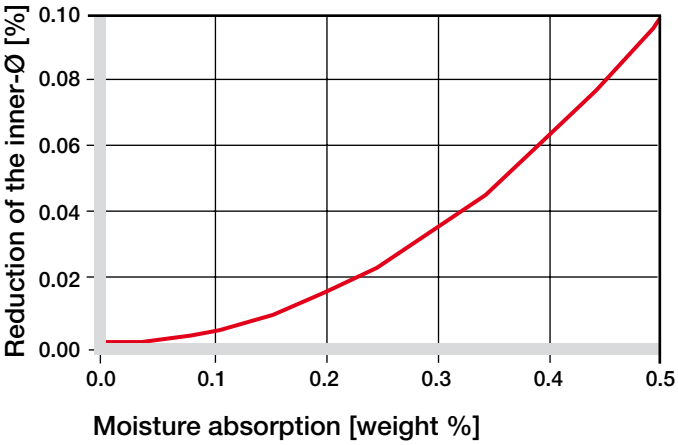
Volume resistance	$< 10^5$ Ωcm
Surface resistance	$< 10^3$ Ωcm

Moisture Absorption

The moisture absorption of iglidur® X plain bearings is very low. It is approximately 0.1% by weight in the standard atmosphere. So even in applications under water, iglidur® X bearings can be used without alterations of the assembly conditions. The maximum moisture absorption is 0.5 % by weight.

Maximum moisture absorption	
At +23 °C/50 % r.h.	0.1 % weight
Max. moisture absorption	0.5 % weight

Table 06: Moisture absorption



Graph 11: Effect of moisture absorption plain bearings

Installation Tolerances

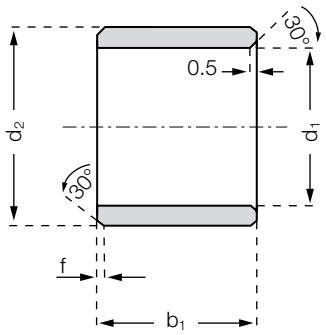
iglidur® X plain bearings are meant to be oversized before pressfit. The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, the inner diameter adjusts to meet our specified tolerances.

▶ Testing Methods, **page 45**

Diameter d1 [mm]			Shaft h9 [mm]	iglidur® X F10 [mm]	Housing H7 [mm]
	up to	3	0–0.025	+0.006 +0.046	0 +0.010
>	3 to	6	0–0.030	+0.010 +0.058	0 +0.012
>	6 to	10	0–0.036	+0.013 +0.071	0 +0.015
>	10 to	18	0–0.043	+0.016 +0.086	0 +0.018
>	18 to	30	0–0.052	+0.020 +0.104	0 +0.021
>	30 to	50	0–0.062	+0.025 +0.125	0 +0.025
>	50 to	80	0–0.074	+0.030 +0.150	0 +0.030

Table 07: Important tolerances plain bearings according to ISO 3547-1 after pressfit

Sleeve bearing



Order key

XSM-0203-03

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form S)
- Material iglidur® X

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	b1 h13
XSM-0203-03	2.0	+0.006 +0.046	3.5	3.0
XSM-0304-03	3.0	+0.006 +0.046	4.5	3.0
XSM-0304-06	3.0	+0.006 +0.046	4.5	6.0
XSM-0405-04	4.0	+0.010 +0.058	5.5	4.0
XSM-0507-035	5.0	+0.010 +0.058	7.0	3.5
XSM-0507-05	5.0	+0.010 +0.058	7.0	5.0
XSM-0507-08	5.0	+0.010 +0.058	7.0	8.0
XSM-0608-06	6.0	+0.010 +0.058	8.0	6.0
XSM-0608-08	6.0	+0.010 +0.058	8.0	8.0
XSM-0608-10	6.0	+0.010 +0.058	8.0	10.0
XSM-0608-13	6.0	+0.010 +0.058	8.0	13.8
XSM-0709-12	7.0	+0.013 +0.071	9.0	12.0
XSM-0810-06	8.0	+0.013 +0.071	10.0	6.0
XSM-0810-08	8.0	+0.013 +0.071	10.0	8.0
XSM-0810-10	8.0	+0.013 +0.071	10.0	10.0
XSM-0810-12	8.0	+0.013 +0.071	10.0	12.0
XSM-0810-15	8.0	+0.013 +0.071	10.0	15.0
XSM-1012-06	10.0	+0.013 +0.071	12.0	6.0
XSM-1012-08	10.0	+0.013 +0.071	12.0	8.0
XSM-1012-10	10.0	+0.013 +0.071	12.0	10.0
XSM-1012-12	10.0	+0.013 +0.071	12.0	12.0
XSM-1012-20	10.0	+0.013 +0.071	12.0	20.0
XSM-1214-035	12.0	+0.016 +0.086	14.0	3.5
XSM-1214-06	12.0	+0.016 +0.086	14.0	6.0
XSM-1214-08	12.0	+0.016 +0.086	14.0	8.0

Part number	d1	d1-Tolerance*	d2	b1 h13
XSM-1214-10	12.0	+0.016 +0.086	14.0	10.0
XSM-1214-12	12.0	+0.016 +0.086	14.0	12.0
XSM-1214-15	12.0	+0.016 +0.086	14.0	15.0
XSM-1214-20	12.0	+0.016 +0.086	14.0	20.0
XSM-1416-12	14.0	+0.016 +0.086	16.0	12.0
XSM-1416-15	14.0	+0.016 +0.086	16.0	15.0
XSM-1416-20	14.0	+0.016 +0.086	16.0	20.0
XSM-1517-10	15.0	+0.016 +0.086	17.0	10.0
XSM-1517-15	15.0	+0.016 +0.086	17.0	15.0
XSM-1517-20	15.0	+0.016 +0.086	17.0	20.0
XSM-1618-10	16.0	+0.016 +0.086	18.0	10.0
XSM-1618-12	16.0	+0.016 +0.086	18.0	12.0
XSM-1618-15	16.0	+0.016 +0.086	18.0	15.0
XSM-1618-20	16.0	+0.016 +0.086	18.0	20.0
XSM-1618-35	16.0	+0.016 +0.086	18.0	35.0
XSM-1719-20	17.0	+0.016 +0.086	19.0	20.0
XSM-1820-15	18.0	+0.016 +0.086	20.0	15.0
XSM-1820-20	18.0	+0.016 +0.086	20.0	20.0
XSM-2022-140	20.0	+0.020 +0.104	22.0	14.0
XSM-2022-145	20.0	+0.020 +0.104	22.0	14.5
XSM-2022-18	20.0	+0.020 +0.104	22.0	18.0
XSM-2022-20	20.0	+0.020 +0.104	22.0	20.0
XSM-2023-07	20.0	+0.020 +0.104	23.0	7.0
XSM-2023-10	20.0	+0.020 +0.104	23.0	10.0
XSM-2023-15	20.0	+0.020 +0.104	23.0	15.0

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online www.igus.eu/eu/x

Sleeve bearing

Dimensions [mm]

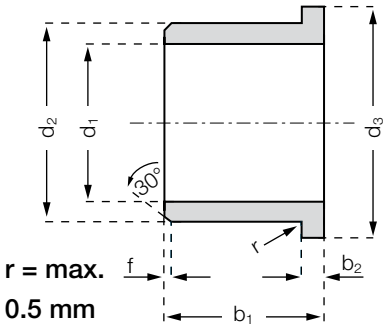
Part number	d1	d1-Tolerance*	d2	b1 h13
XSM-2023-20	20.0	+0.020 +0.104	23.0	20.0
XSM-2023-25	20.0	+0.020 +0.104	23.0	25.0
XSM-2023-30	20.0	+0.020 +0.104	23.0	30.0
XSM-2225-15	22.0	+0.020 +0.104	25.0	15.0
XSM-2225-20	22.0	+0.020 +0.104	25.0	20.0
XSM-2426-20	24.0	+0.020 +0.104	26.0	20.0
XSM-2427-20	24.0	+0.020 +0.104	27.0	20.0
XSM-2528-077	25.0	+0.020 +0.104	28.0	7.7
XSM-2528-09	25.0	+0.020 +0.104	28.0	9.0
XSM-2528-12	25.0	+0.020 +0.104	28.0	12.0
XSM-2528-13	25.0	+0.020 +0.104	28.0	13.0
XSM-2528-15	25.0	+0.020 +0.104	28.0	15.0
XSM-2528-20	25.0	+0.020 +0.104	28.0	20.0
XSM-2528-30	25.0	+0.020 +0.104	28.0	30.0
XSM-2730-05	27.0	+0.020 +0.104	30.0	5.7
XSM-2832-20	28.0	+0.020 +0.104	32.0	20.0
XSM-2832-30	28.0	+0.020 +0.104	32.0	30.0
XSM-3034-20	30.0	+0.020 +0.104	34.0	20.0
XSM-3034-25	30.0	+0.020 +0.104	34.0	25.0
XSM-3034-30	30.0	+0.020 +0.104	34.0	30.0

Part number	d1	d1-Tolerance*	d2	b1 h13
XSM-3034-40	30.0	+0.020 +0.104	34.0	40.0
XSM-3236-25	32.0	+0.025 +0.125	36.0	25.0
XSM-3236-30	32.0	+0.025 +0.125	36.0	30.0
XSM-3539-20	35.0	+0.025 +0.125	39.0	20.0
XSM-3539-30	35.0	+0.025 +0.125	39.0	30.0
XSM-3539-40	35.0	+0.025 +0.125	39.0	40.0
XSM-3539-50	35.0	+0.025 +0.125	39.0	50.0
XSM-4044-30	40.0	+0.025 +0.125	44.0	30.0
XSM-4044-40	40.0	+0.025 +0.125	44.0	40.0
XSM-4044-50	40.0	+0.025 +0.125	44.0	50.0
XSM-4550-50	45.0	+0.025 +0.125	50.0	50.0
XSM-5055-30	50.0	+0.025 +0.125	55.0	30.0
XSM-5055-40	50.0	+0.025 +0.125	55.0	40.0
XSM-5055-60	50.0	+0.025 +0.125	55.0	60.0
XSM-5560-50	55.0	+0.030 +0.150	60.0	50.0
XSM-6065-45	60.0	+0.030 +0.150	65.0	45.0
XSM-6065-60	60.0	+0.030 +0.150	65.0	60.0
XSM-6570-50	65.0	+0.030 +0.150	70.0	50.0
XSM-7075-70	70.0	+0.030 +0.150	75.0	70.0

* after pressfit. Testing methods ▶ page 45

iglidur® X | Product Range

Flange bearing



Order key

XFM-0304-05

- Length b1
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form F)
- Material iglidur® X

Dimensions according to ISO 3547-1 and special dimensions

Chamfer in relation to the d1

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

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
XFM-020406-03	2.0	+0.006 +0.046	4.0	6.0	3.0	1.0
XFM-0304-05	3.0	+0.006 +0.046	4.5	7.5	5.0	0.75
XFM-0405-04	4.0	+0.010 +0.058	5.5	9.5	4.0	0.75
XFM-0405-06	4.0	+0.010 +0.058	5.5	9.5	6.0	0.75
XFM-040508-06	4.0	+0.010 +0.058	5.5	8.0	6.0	0.75
XFM-0507-05	5.0	+0.010 +0.058	7.0	11.0	5.0	1.0
XFM-0608-08	6.0	+0.010 +0.058	8.0	12.0	8.0	1.0
XFM-0608-10	6.0	+0.010 +0.058	8.0	12.0	10.0	1.0
XFM-0810-05	8.0	+0.013 +0.071	10.0	15.0	5.5	1.0
XFM-0810-075	8.0	+0.013 +0.071	10.0	15.0	7.5	1.0
XFM-0810-08	8.0	+0.013 +0.071	10.0	15.0	8.0	1.0
XFM-0810-09	8.0	+0.013 +0.071	10.0	15.0	9.0	1.0
XFM-081012-04	8.0	+0.013 +0.071	10.0	12.0	4.0	1.0
XFM-081014-31	8.0	+0.013 +0.071	10.0	14.0	31.5	1.0
XFM-1012-06	10.0	+0.013 +0.071	12.0	18.0	6.0	1.0
XFM-1012-08	10.0	+0.013 +0.071	12.0	15.0	8.0	1.0
XFM-1012-09	10.0	+0.013 +0.071	12.0	18.0	9.0	1.0
XFM-1012-15	10.0	+0.013 +0.071	12.0	18.0	15.0	1.0
XFM-1012-18	10.0	+0.013 +0.071	12.0	18.0	18.0	1.0
XFM-1012-22	10.0	+0.013 +0.071	12.0	18.0	22.0	1.0
XFM-1214-055	12.0	+0.016 +0.086	14.0	20.0	5.5	1.0
XFM-121418-059	12.0	+0.016 +0.086	14.0	18.0	5.9	1.0
XFM-1214-09	12.0	+0.016 +0.086	14.0	20.0	9.0	1.0
XFM-1214-12	12.0	+0.016 +0.086	14.0	20.0	12.0	1.0
XFM-1214-15	12.0	+0.016 +0.086	14.0	20.0	15.0	1.0

* after pressfit. Testing methods ▶ page 45

delivery time from stock

prices price list online www.igus.eu/eu/x

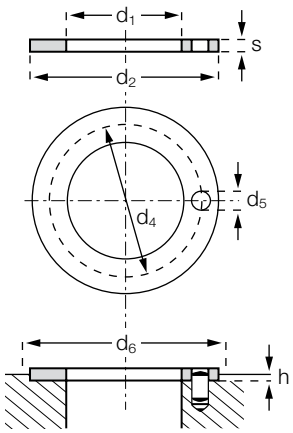
Flange bearing

Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3	b1	b2
				d13	h13	–0.14
XFM-121418-039	12.0	+0.016 +0.086	14.0	18.0	3.9	1.0
XFM-1416-10	14.0	+0.016 +0.086	16.0	22.0	10.0	1.0
XFM-1416-12	14.0	+0.016 +0.086	16.0	22.0	12.0	1.0
XFM-1416-17	14.0	+0.016 +0.086	16.0	22.0	17.0	1.0
XFM-1517-06	15.0	+0.016 +0.086	17.0	23.0	6.0	1.0
XFM-1517-12	15.0	+0.016 +0.086	17.0	23.0	12.0	1.0
XFM-1517-17	15.0	+0.016 +0.086	17.0	23.0	17.0	1.0
XFM-1618-12	16.0	+0.016 +0.086	18.0	24.0	12.0	1.0
XFM-1618-17	16.0	+0.016 +0.086	18.0	24.0	17.0	1.0
XFM-1820-12	18.0	+0.016 +0.086	20.0	26.0	12.0	1.0
XFM-1820-17	18.0	+0.016 +0.086	20.0	26.0	17.0	1.0
XFM-2023-075	20.0	+0.020 +0.104	23.0	30.0	7.5	1.5
XFM-2023-11	20.0	+0.020 +0.104	23.0	30.0	11.0	1.5
XFM-2023-16	20.0	+0.020 +0.104	23.0	30.0	16.5	1.5
XFM-2023-21	20.0	+0.020 +0.104	23.0	30.0	21.0	1.5
XFM-2528-13	25.0	+0.020 +0.104	28.0	35.0	13.5	1.5
XFM-2528-21	25.0	+0.020 +0.104	28.0	35.0	21.0	1.5
XFM-252833-08	25.0	+0.020 +0.104	28.0	33.0	8.0	1.0
XFM-2730-20	27.0	+0.020 +0.104	30.0	38.0	20.0	1.5
XFM-3034-16	30.0	+0.020 +0.104	34.0	42.0	16.0	2.0
XFM-3034-26	30.0	+0.020 +0.104	34.0	42.0	26.0	2.0
XFM-3034-40	30.0	+0.020 +0.104	34.0	42.0	40.0	2.0
XFM-3236-15	32.0	+0.025 +0.125	36.0	45.0	15.0	2.0
XFM-3236-26	32.0	+0.025 +0.125	36.0	45.0	26.0	2.0
XFM-3539-26	35.0	+0.025 +0.125	39.0	47.0	26.0	2.0
XFM-4044-30	40.0	+0.025 +0.125	44.0	52.0	30.0	2.0
XFM-4044-40	40.0	+0.025 +0.125	44.0	52.0	40.0	2.0
XFM-4550-50	45.0	+0.025 +0.125	50.0	58.0	50.0	2.0
XFM-5055-40	50.0	+0.025 +0.125	55.0	63.0	40.0	2.0
XFM-6065-40	60.0	+0.030 +0.150	65.0	73.0	40.0	2.0
XFM-7075-40	70.0	+0.030 +0.150	75.0	83.0	40.0	2.0
XFM-7580-50	75.0	+0.030 +0.150	80.0	88.0	50.0	2.0

* after pressfit. Testing methods ▶ page 45

Thrust washer



Order key

XTM-0620-015

- Thickness s
- Outer diameter d2
- Inner diameter d1
- Metric
- Type (Form T)
- Material iglidur® X

Dimensions according to ISO 3547-1 and special dimensions

Dimensions [mm]

Part number	d1 +0.25	d2 –0.25	s –0.05	d4 –0.12 +0.12	d5 +0.375 +0.125	h +0.2 –0.2	d6 +0.12
XTM-0620-015	6.0	20.0	1.5	13.0	1.5	1.0	20.0
XTM-0818-015	8.0	18.0	1.5	13.0	1.5	1.0	18.0
XTM-1018-010	10.0	18.0	1.0	**	**	0.7	18.0
XTM-1224-015	12.0	24.0	1.5	18.0	1.5	1.0	24.0
XTM-1426-015	14.0	26.0	1.5	20.0	2.0	1.0	26.0
XTM-1524-015	15.0	24.0	1.5	19.5	1.5	1.0	24.0
XTM-1630-015	16.0	30.0	1.5	22.0	2.0	1.0	30.0
XTM-1832-015	18.0	32.0	1.5	25.0	2.0	1.0	32.0
XTM-2036-015	20.0	36.0	1.5	28.0	3.0	1.0	36.0
XTM-2238-015	22.0	38.0	1.5	30.0	3.0	1.0	38.0
XTM-2442-015	24.0	42.0	1.5	33.0	3.0	1.0	42.0
XTM-2644-015	26.0	44.0	1.5	35.0	3.0	1.0	44.0
XTM-2848-015	28.0	48.0	1.5	38.0	4.0	1.0	48.0
XTM-3254-015	32.0	54.0	1.5	43.0	4.0	1.0	54.0
XTM-3862-015	38.0	62.0	1.5	50.0	4.0	1.0	62.0
XTM-4266-015	42.0	66.0	1.5	54.0	4.0	1.0	66.0
XTM-4874-020	48.0	74.0	2.0	61.0	4.0	1.5	74.0
XTM-5278-020	52.0	78.0	2.0	65.0	4.0	1.5	78.0
XTM-6290-020	62.0	90.0	2.0	76.0	4.0	1.5	90.0

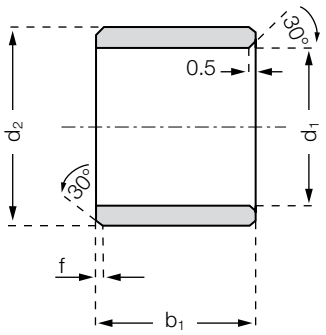
** design without fixing bore

delivery time from stock

prices price list online
www.igus.eu/eu/x

iglidur® X | Product Range | Inch

Sleeve bearing



Order key

XSI-0203-03

- Length b1
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form S)
- Material iglidur® X

Chamfer in relation to the d1

d1 [Inch]:	Ø 0,040–0,236	Ø 0,236–0,472	Ø 0,472–1,18	Ø > 1,18
f [Inch]:	0.012	0.019	0.031	0047

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
XSI-0203-03	1/8	3/16	3/16	.1269	.1251	.1878	.1873	.1243	.1236
XSI-0203-05	1/8	3/16	5/16	.1269	.1251	.1878	.1873	.1243	.1236
XSI-0203-06	1/8	3/16	3/8	.1269	.1251	.1878	.1873	.1243	.1236
XSI-0304-03	3/16	1/4	3/16	.1892	.1873	.2503	.2497	.1865	.1858
XSI-0304-04	3/16	1/4	1/4	.1892	.1873	.2503	.2497	.1865	.1858
XSI-0304-06	3/16	1/4	3/8	.1892	.1873	.2503	.2497	.1865	.1858
XSI-0304-08	3/16	1/4	1/2	.1892	.1873	.2503	.2497	.1865	.1858
XSI-0405-04	1/4	5/16	1/4	.2521	.2498	.3128	.3122	.2490	.2481
XSI-0405-06	1/4	5/16	3/8	.2521	.2498	.3128	.3122	.2490	.2481
XSI-0405-08	1/4	5/16	1/2	.2521	.2498	.3128	.3122	.2490	.2481
XSI-0506-04	5/16	3/8	1/4	.3148	.3125	.3753	.3747	.3115	.3106
XSI-0506-06	5/16	3/8	3/8	.3148	.3125	.3753	.3747	.3115	.3106
XSI-0506-08	5/16	3/8	1/2	.3148	.3125	.3753	.3747	.3115	.3106
XSI-0607-04	3/8	15/32	1/4	.3773	.3750	.4691	.4684	.3740	.3731
XSI-0607-05	3/8	15/32	5/16	.3773	.3750	.4691	.4684	.3740	.3731
XSI-0607-06	3/8	15/32	3/8	.3773	.3750	.4691	.4684	.3740	.3731
XSI-0607-08	3/8	15/32	1/2	.3773	.3750	.4691	.4684	.3740	.3731
XSI-0607-10	3/8	15/32	5/8	.3773	.3750	.4691	.4684	.3740	.3731
XSI-0708-04	7/16	17/32	1/4	.4406	.4379	.5316	.5309	.4365	.4355
XSI-0708-08	7/16	17/32	1/2	.4406	.4379	.5316	.5309	.4365	.4355
XSI-0708-10	7/16	17/32	5/8	.4406	.4379	.5316	.5309	.4365	.4355
XSI-0708-12	7/16	17/32	3/4	.4406	.4379	.5316	.5309	.4365	.4355
XSI-0809-04	1/2	19/32	1/4	.5030	.5003	.5941	.5934	.4990	.4980
XSI-0809-06	1/2	19/32	3/8	.5030	.5003	.5941	.5934	.4990	.4980
XSI-0809-08	1/2	19/32	1/2	.5030	.5003	.5941	.5934	.4990	.4980

* after pressfit. Testing methods ▶ page 45

delivery time **from stock**

prices **price list online** www.igus.eu/eu/x

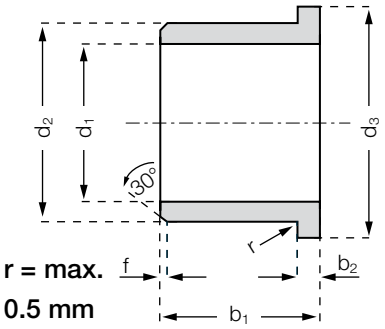
Sleeve bearing

Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
XSI-0809-10	1/2	19/32	5/8	.5030	.5003	.5941	.5934	.4990	.4980
XSI-0809-12	1/2	19/32	3/4	.5030	.5003	.5941	.5934	.4990	.4980
XSI-0809-16	1/2	19/32	1	.5030	.5003	.5941	.5934	.4990	.4980
XSI-0910-08	9/16	21/32	1/2	.5655	.5627	.6566	.6559	.5615	.5605
XSI-0910-12	9/16	21/32	3/4	.5655	.5627	.6566	.6559	.5615	.5605
XSI-1011-04	5/8	23/32	1/4	.6280	.6253	.7192	.7184	.6240	.6230
XSI-1011-06	5/8	23/32	3/8	.6280	.6253	.7192	.7184	.6240	.6230
XSI-1011-08	5/8	23/32	1/2	.6280	.6253	.7192	.7184	.6240	.6230
XSI-1011-10	5/8	23/32	5/8	.6280	.6253	.7192	.7184	.6240	.6230
XSI-1011-12	5/8	23/32	3/4	.6280	.6253	.7192	.7184	.6240	.6230
XSI-1011-16	5/8	23/32	1	.6280	.6253	.7192	.7184	.6240	.6230
XSI-1112-14	11/16	25/32	7/8	.6906	.6879	.7817	.7809	.6865	.6855
XSI-1214-06	3/4	7/8	3/8	.7541	.7507	.8755	.8747	.7491	.7479
XSI-1214-08	3/4	7/8	1/2	.7541	.7507	.8755	.8747	.7491	.7479
XSI-1214-12	3/4	7/8	3/4	.7541	.7507	.8755	.8747	.7491	.7479
XSI-1214-16	3/4	7/8	1	.7541	.7507	.8755	.8747	.7491	.7479
XSI-1416-12	7/8	1	3/4	.8791	.8757	1.0005	.9997	.8741	.8729
XSI-1416-16	7/8	1	1	.8791	.8757	1.0005	.9997	.8741	.8729
XSI-1618-08	1	1 1/8	1/2	1.0041	1.0007	1.1255	1.1247	.9991	.9979
XSI-1618-12	1	1 1/8	3/4	1.0041	1.0007	1.1255	1.1247	.9991	.9979
XSI-1618-16	1	1 1/8	1	1.0041	1.0007	1.1255	1.1247	.9991	.9979
XSI-1618-24	1	1 1/8	1 1/2	1.0041	1.0007	1.1255	1.1247	.9991	.9979
XSI-1820-12	1 1/8	1 9/32	3/4	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
XSI-2022-10	1 1/4	1 13/32	5/8	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
XSI-2022-20	1 1/4	1 13/32	1 1/4	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
XSI-2426-12	1 1/2	1 21/32	3/4	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
XSI-2426-16	1 1/2	1 21/32	1	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
XSI-2426-24	1 1/2	1 21/32	1 1/2	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
XSI-2629-20	1 5/8	1 25/32	1 1/4	1.6297	1.6258	1.7818	1.7808	1.6238	1.6222
XSI-2831-16	1 3/4	1 15/16	1	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
XSI-3235-24	2	2 3/16	1 1/2	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
XSI-3235-32	2	2 3/16	2	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
XSI-3639-32	2 1/4	2 7/16	2	2.2577	2.2531	2.4377	2.4365	2.2507	2.2489
XSI-4447-32	2 3/4	2 15/16	2	2.7570	2.7523	2.9370	2.9358	2.7500	2.7490

* after pressfit. Testing methods ▶ page 45

Flange bearing



r = max. 0.5 mm

Order key

XFI-0203-03

- Length b1
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form F)
- Material iglidur® X

Chamfer in relation to the d1

d1 [Inch]:	Ø 0,040–0,236	Ø 0,236–0,472	Ø 0,472–1,18	Ø > 1,18
f [Inch]:	0.012	0.019	0.031	0.047

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft size	
						max.	min.	max.	min.	max.	min.
XFI-0203-03	1/8	3/16	3/16	.312	.032	.1269	.1251	.1878	.1873	.1243	.1236
XFI-0203-06	1/8	3/16	3/8	.312	.032	.1269	.1251	.1878	.1873	.1243	.1236
XFI-0304-04	3/16	1/4	1/4	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
XFI-0304-06	3/16	1/4	3/8	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
XFI-0304-08	3/16	1/4	1/2	.375	.032	.1892	.1873	.2503	.2497	.1865	.1858
XFI-0405-03	1/4	5/16	3/16	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
XFI-0405-04	1/4	5/16	1/4	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
XFI-0405-06	1/4	5/16	3/8	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
XFI-0405-08	1/4	5/16	1/2	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
XFI-0405-12	1/4	5/16	3/4	.500	.032	.2521	.2498	.3128	.3122	.2490	.2481
XFI-0506-04	5/16	3/8	1/4	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
XFI-0506-06	5/16	3/8	3/8	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
XFI-0506-08	5/16	3/8	1/2	.562	.032	.3148	.3125	.3753	.3747	.3115	.3106
XFI-0607-04	3/8	15/32	1/4	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
XFI-0607-06	3/8	15/32	3/8	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
XFI-0607-08	3/8	15/32	1/2	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
XFI-0607-12	3/8	15/32	3/4	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
XFI-0708-08	7/16	17/32	1/2	.750	.046	.4406	.4379	.5316	.5309	.4365	.4355
XFI-0809-04	1/2	19/32	1/4	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
XFI-0809-06	1/2	19/32	3/8	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
XFI-0809-08	1/2	19/32	1/2	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
XFI-0809-12	1/2	19/32	3/4	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
XFI-0809-16	1/2	19/32	1	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
XFI-1011-08	5/8	23/32	1/2	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
XFI-1011-12	5/8	23/32	3/4	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230

* after pressfit. Testing methods ▶ page 45

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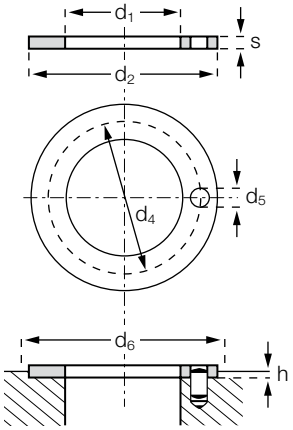
Flange bearing

Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft size	
						max.	min.	max.	min.	max.	min.
XFI-1011-16	5/8	23/32	1	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
XFI-1011-24	5/8	23/32	1 1/2	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
XFI-1214-08	3/4	7/8	1/2	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
XFI-1214-12	3/4	7/8	3/4	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
XFI-1214-16	3/4	7/8	1	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
XFI-1214-28	3/4	7/8	1 3/4	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
XFI-1416-12	7/8	1	3/4	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
XFI-1416-16	7/8	1	1	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
XFI-1618-08	1	1 1/8	1/2	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
XFI-1618-12	1	1 1/8	3/4	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
XFI-1618-16	1	1 1/8	1	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
XFI-1618-24	1	1 1/8	1 1/2	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
XFI-1820-12	1 1/8	1 9/32	3/4	1.562	.078	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
XFI-2022-20	1 1/4	1 13/32	1 1/4	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
XFI-2022-32	1 1/4	1 13/32	2	1.687	.078	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
XFI-2426-12	1 1/2	1 21/32	3/4	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
XFI-2426-16	1 1/2	1 21/32	1	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
XFI-2426-24	1 1/2	1 21/32	1 1/2	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
XFI-2426-26	1 1/2	1 21/32	1 5/8	2.000	.078	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
XFI-2831-16	1 3/4	1 15/16	1	2.375	.093	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
XFI-3235-32	2	2 3/16	2	2.625	.093	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
XFI-4447-32	2 3/4	2 15/16	2	3.375	.093	2.7570	2.7523	2.9370	2.9358	2.7500	2.7490

* after pressfit. Testing methods ▶ page 45

Thrust washer



Order key

XTI-0814-01

- Thickness s
- Outer diameter d2
- Inner diameter d1
- Inch
- Type (Form T)
- Material iglidur® X

Dimensions according to ISO 3547-1 and special dimensions

Dimensions [Inch]

Part number	d1	d2	s	d4	d5	h	d6
	+.010	-.010	-.0020	±.005	.015 + .005	+.008	+.005
XTI-0814-01	.500	.875	.0585	.692	.067	.040	.875
XTI-1018-01	.625	1.125	.0585	.880	.099	.040	1.125
XTI-1220-01	.750	1.250	.0585	1.005	.099	.040	1.250
XTI-1424-01	.875	1.500	.0585	1.192	.130	.040	1.500
XTI-1628-01	1.000	1.750	.0585	1.380	.130	.040	1.750
XTI-1826-01	1.125	1.625	.0585	–	–	.040	1.625
XTI-2034-01	1.250	2.125	.0585	1.692	.161	.040	2.125
XTI-2440-01	1.500	2.500	.0585	2.005	.192	.040	2.500
XTI-2844-01	1.750	2.750	.0585	2.255	.192	.040	2.750
XTI-3248-01	2.000	3.000	.0895	2.505	.192	.070	3.000

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