

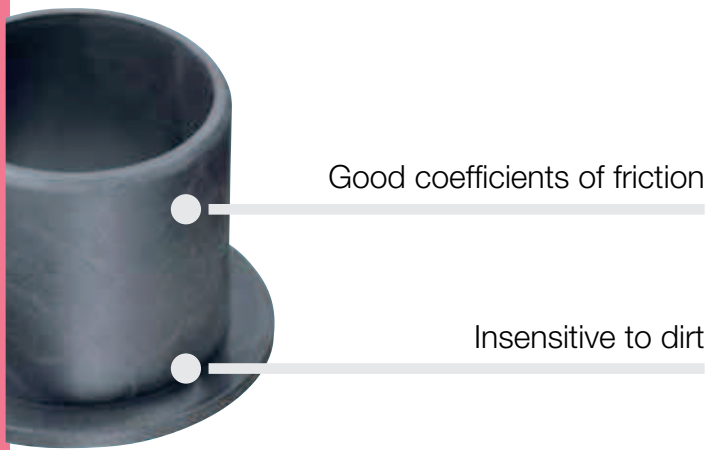
iglidur® Q

Wear-resistant at high loads. iglidur® Q is the low priced solution for high duty cycles at high to extreme loads. Bearing made from this material can be used in all types of motion, but is best suited to oscillating applications.



Excellent wear resistance, especially for extreme loads

Recommended for extreme pv values



Good coefficients of friction

Insensitive to dirt



When to use it?

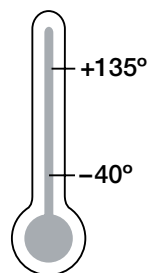
- For oscillating applications
- Excellent wear resistance, especially for extreme loads
- Recommended for extreme pv values
- If the bearing should be insensitive to dirt



When not to use it?

- For underwater applications
 - ▶ iglidur® H370, page 347
- When temperatures are constantly greater than +135 °C
 - ▶ iglidur® H, page 325
 - ▶ iglidur® X, page 153
 - ▶ iglidur® Z, page 299
- When electrically conductive bearings are needed
 - ▶ iglidur® F, page 439
 - ▶ iglidur® H, page 325

Temperature



Product range

3 types
 Ø 6–80 mm
 more dimensions
 on request



iglidur® Q | Application Examples

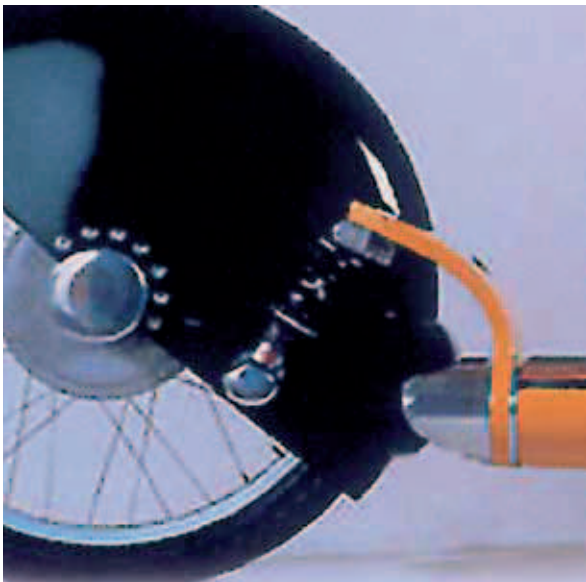


Typical sectors of industry and application areas

- Construction machinery
- Sheet metal industry ● Agricultural machines
- Railway technology
- Doors and gates etc.

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

► www.igus.eu/eu/iglidur-applications



► www.igus.eu/electro-roller



► www.igus.eu/tank-truck



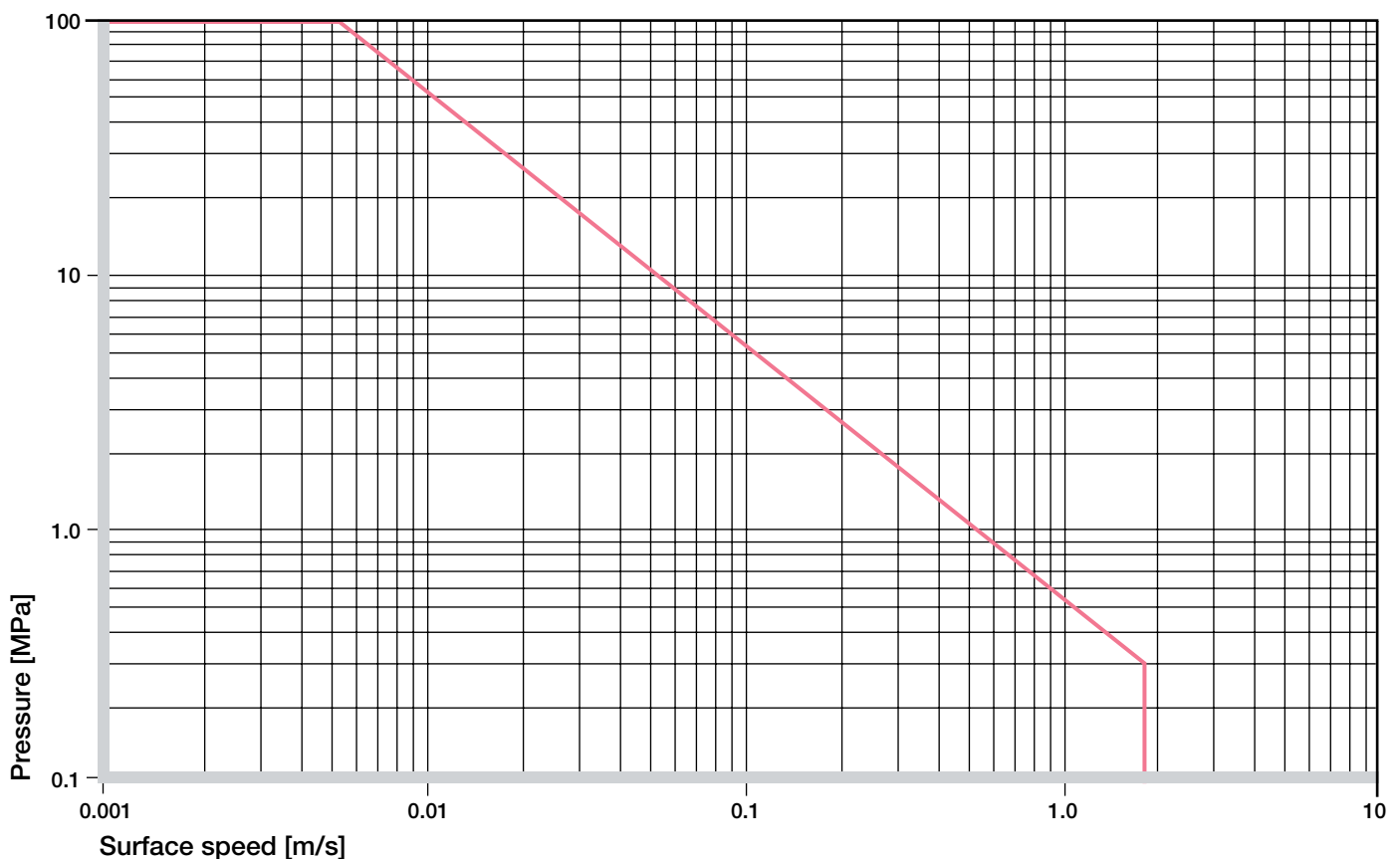
► www.igus.eu/baggripper



► www.igus.eu/tv-stand

Material data

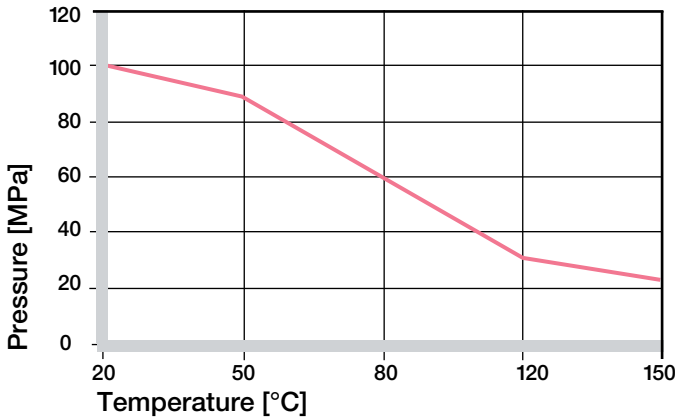
General properties	Unit	igidur® Q	Testing method
Density	g/cm ³	1.40	
Colour		black	
Max. moisture absorption at +23 °C/50 % r. h.	% weight	0.9	DIN 53495
Max. moisture absorption	% weight	4.9	
Coefficient of sliding friction, dynamic against steel	μ	0.05–0.15	
pv value, max. (dry)	MPa · m/s	0.55	
Mechanical properties			
Modulus of elasticity	MPa	4,500	DIN 53457
Tensile strength at +20 °C	MPa	120	DIN 53452
Compressive strength	MPa	89	
Max. recommended surface pressure (+20 °C)	MPa	100	
Shore D hardness		83	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+135	
Max. short term application temperature	°C	+155	
Min. application temperature	°C	-40	
Thermal conductivity	W/m · K	0.23	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	K ⁻¹ · 10 ⁻⁵	5	DIN 53752
Electrical properties			
Specific volume resistance	Ωcm	> 10 ¹⁵	DIN IEC 93
Surface resistance	Ω	> 10 ¹²	DIN 53482

Tabelle 01: Material data

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

iglidur® Q | Technical Data

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® Q plain bearings decreases. The Graph 02 shows this inverse relationship. However, at the longterm maximum temperature of +135 °C the permissible surface pressure is almost 30 MPa.

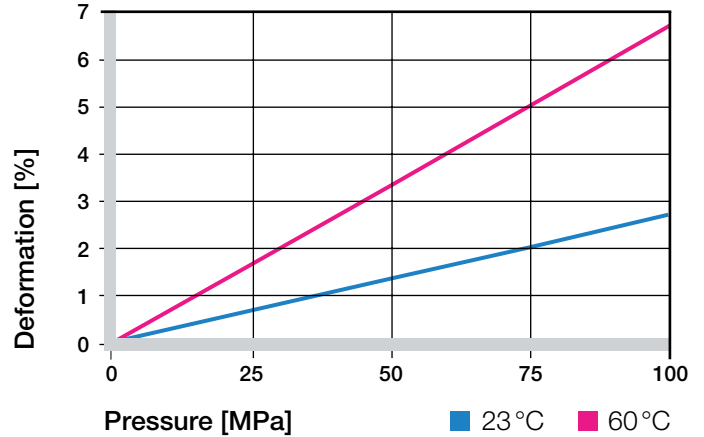


Graph 02: Recommended maximum surface pressure of as a function of temperature (100 MPa at +20 °C)

iglidur® Q bearings were developed especially for extreme loads. Under high loads, iglidur® Q figures among the iglidur® materials that display the best wear resistance. From a radial pressure of 25 MPa, it outclasses even bearings made of the highly abrasion-resistant iglidur® W300. Specific solid lubricants, precisely integrated into the material, ensure that the maintenance-free dry operation is guaranteed under any load.

iglidur® Q is a material used when high pv values are reached through high loads. pv values above 1 are possible for loads over 50 MPa. Graph 03 shows the elastic deformation of iglidur® Q with radial loads. Under the maximum recommended surface pressure of 100 MPa, the deformation at room temperature amounts to less than 3%.

► Surface Pressure, [page 43](#)



Graph 03: Deformation under pressure and temperature

Permissible Surface Speeds

Under extreme radial loads, the iglidur® Q bearings can reach the maximum pv values, which are possible in the dry operation with plain bearings. Though the iglidur® Q bearings have the greatest advantages with high loads and low speeds, high surface speeds are also attainable due to the excellent coefficients of friction. The values stated in Table 02 show the speed at which the temperature rises to the maximum permitted value as a result of friction.

► Surface Speed, [page 45](#)

m/s	Rotating	Oscillating	Linear
Continuous	1	0.7	5
Short term	2	1.4	6

Table 02: Maximum running speed

Temperatures

Plain bearings made of iglidur® Q have excellent wear resistance even at high temperatures. The maximum long term application temperature is +135 °C. Because of different environmental influences, the bearing can lose pressfit at lower temperatures. Therefore, it may be necessary to secure the bearings in the housing bore. Also, notice that the coefficient of friction increases rapidly as temperature increases from around +100 °C.

► Application Temperatures, [page 46](#)

iglidur® Q	Application temperature
Minimum	-40 °C
Max. long term	+135 °C
Max. short term	+155 °C
Add. securing is required from	+50 °C

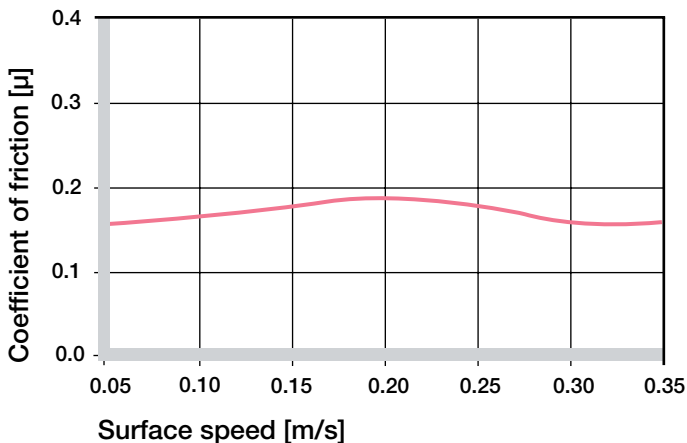
Table 03: Temperature limits

Friction and Wear

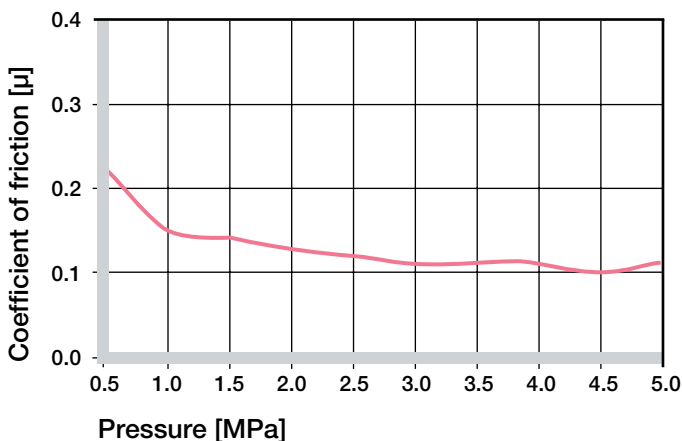
Although most dry running plastic bearings feature decreasing coefficients of friction with increasing pressure, iglidur® Q goes further than most, under high pressures the material gives excellent low values. Soon after the short run-in period, the coefficient of friction stabilizes to the final value. The shaft material also has significant influence on friction and wear. Extremely smooth shafts enhance the coefficient of friction of the bearing. For applications with high loads, we recommend hardened and ground surfaces with an average surface finish of Ra = 0.15 to 0.3 µm.

► Coefficients of Friction and Surfaces, **page 48**

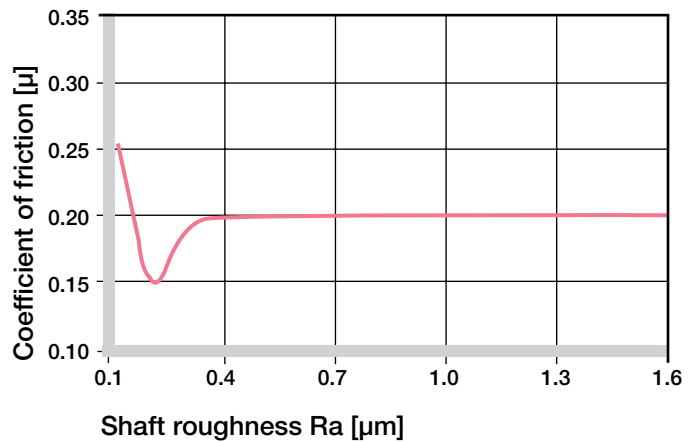
► Wear Resistance, **page 49**



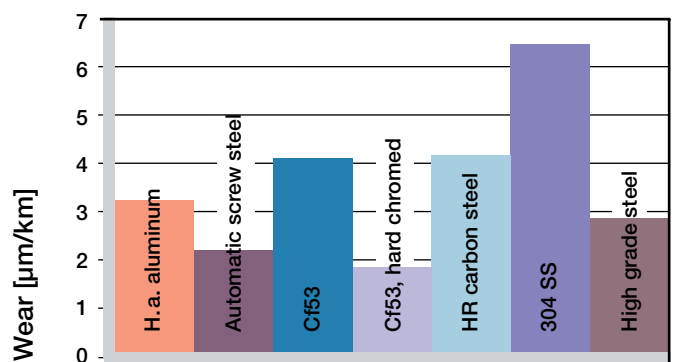
Graph 04: Coefficient of friction as a function of the running speed, p = 0.75 MPa



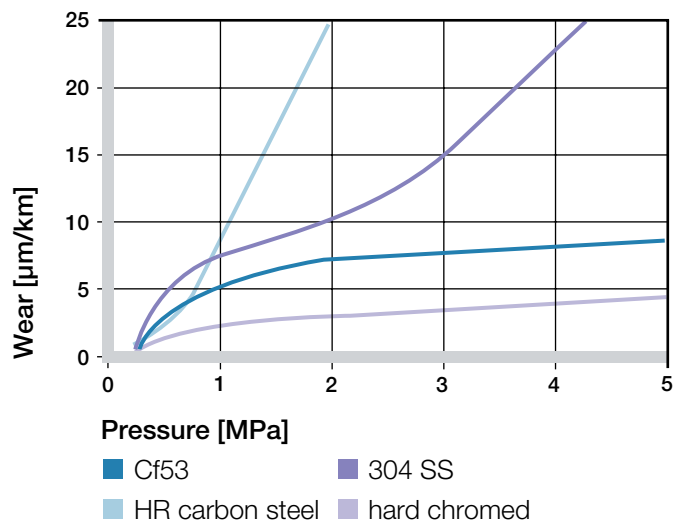
Graph 05: Coefficient of friction as a function of the pressure, v = 0.01 m/s



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

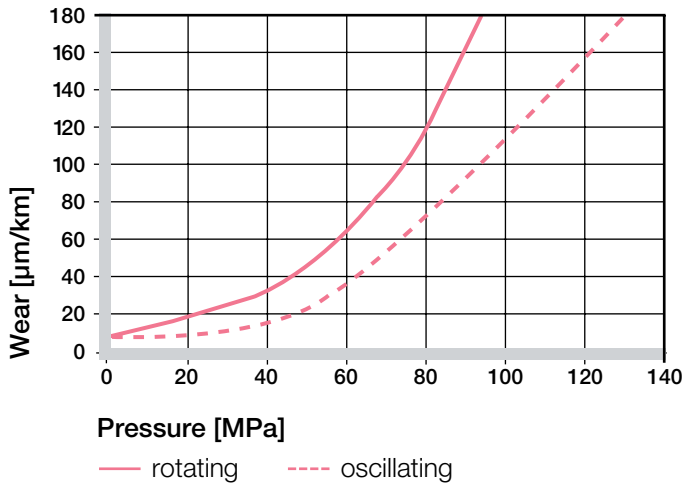


Graph 07: Wear, rotating with different shaft materials, pressure p = 1 MPa, v = 0.3 m/s



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

iglidur® Q | Technical Data



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

Shaft Materials

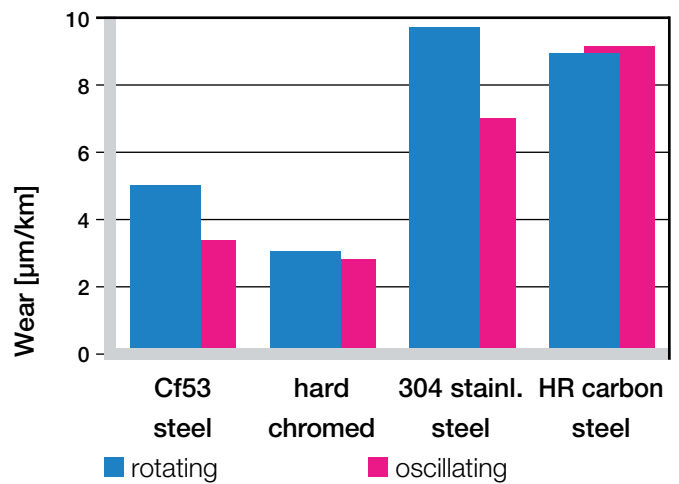
The graphs 06 and 07 display a summary of the results of tests with different shaft materials conducted with bearings made of iglidur® Q.

It is striking that in general the iglidur® Q bearings in the lower load range do not wear rates which are as good as, for example, bearings made of iglidur® J or iglidur® W300. The actual strength of iglidur® Q lies in the wear resistance under heavy loads and in pivoting applications. In pivoting applications, the iglidur® Q pairings with hard-chromed shafts and machining steel shafts turn out to be the best among the tested combinations.

► Shaft Materials, page 51

iglidur® Q	Dry	Greases	Oil	Water
C.o.f. μ	0.05–0.15	0.09	0.04	0.04

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



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

Additional Properties

Chemical Resistance

iglidur® Q bearings have a good resistance against chemicals. They possess an excellent resistance to organic solvents, fuels, oils and fats. The material is only partially resistant to weak acids and alkalis.

► 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® Q are resistant to radiation up to an intensity of applications $3 \cdot 10^2$ Gy.

UV Resistance

The tribological properties of iglidur® Q plain bearings stay constant for the most part under weathering effects. However, the material may become slightly brittle.

Vacuum

When used in a vacuum, the iglidur® Q plain bearings release existing moisture as a vapour. Therefore, only dehumidified bearings made of iglidur® Q are suitable for use in a vacuum.

Electrical Properties

iglidur® Q plain bearings are electrically insulating.

Volume resistance	> 10 ¹⁵ Ωcm
Surface resistance	> 10 ¹² Ω 10

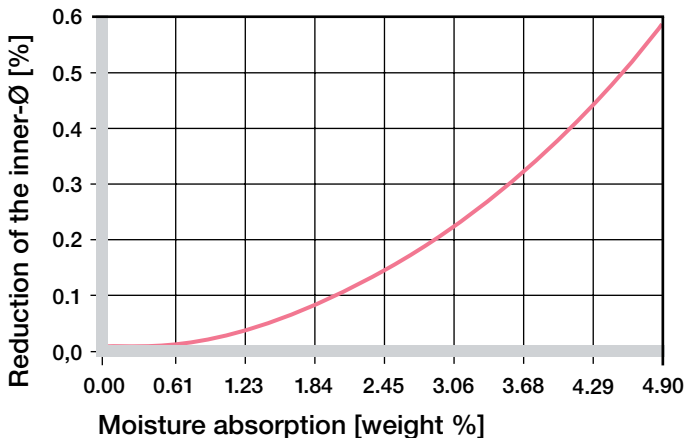
Moisture Absorption

The moisture absorption of iglidur® Q plain bearings is approximately 0.9% in standard atmosphere. The saturation limit in water is 4.9%. This must be taken into account along with any other application conditions.

Maximum moisture absorption

At +23°C/50% r.h.	0.9% weight
Max. moisture absorption	4.9% weight

Table 06: Moisture absorption



Graph 11: Effect of moisture absorption on plain bearings

Installation Tolerances

iglidur® Q bearings are standard bearings for shafts with h tolerance (recommended minimum h9).

After the installation in a housing bore with H7 tolerance, the inner diameter of the bearing automatically adjusts to the E10 tolerance.

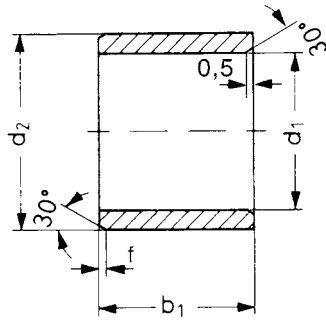
► Testing Methods, page 55

Diameter d1 [mm]	Shaft h9 [mm]	iglidur® Q 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® Q | Product Range

Sleeve bearing



Order key

QSM-0608-10



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

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
QSM-0608-10	6.0	+0.020 +0.068	8.0	10.0
QSM-0810-08	8.0	+0.025 +0.083	10.0	8.0
QSM-1012-10	10.0	+0.025 +0.083	12.0	10.0
QSM-1214-10	12.0	+0.032 +0.102	14.0	10.0
QSM-1214-20	12.0	+0.032 +0.102	14.0	20.0
QSM-1618-08	16.0	+0.032 +0.102	18.0	8.0
QSM-1618-12	16.0	+0.032 +0.102	18.0	12.5
QSM-1618-20	16.0	+0.032 +0.102	18.0	20.0
QSM-1820-20	18.0	+0.032 +0.102	20.0	20.0
QSM-2022-15	20.0	+0.040 +0.124	22.0	15.0
QSM-2023-15	20.0	+0.040 +0.124	23.0	15.0
QSM-2023-20	20.0	+0.040 +0.124	23.0	20.0
QSM-2023-25	20.0	+0.040 +0.124	23.0	25.0
QSM-2023-30	20.0	+0.040 +0.124	23.0	30.0
QSM-2528-25	25.0	+0.040 +0.124	28.0	25.0
QSM-2528-48	25.0	+0.040 +0.124	28.0	48.0

Part number	d1	d1-Tolerance*	d2	b1 h13
QSM-3034-20	30.0	+0.040 +0.124	34.0	20.0
QSM-3034-40	30.0	+0.040 +0.124	34.0	40.0
QSM-3539-15	35.0	+0.050 +0.150	39.0	15.0
QSM-3539-30	35.0	+0.050 +0.150	39.0	30.0
QSM-3539-50	35.0	+0.050 +0.150	39.0	50.0
QSM-4044-40	40.0	+0.050 +0.150	44.0	40.0
QSM-4044-47	40.0	+0.050 +0.150	44.0	47.0
QSM-4550-252	45.0	+0.050 +0.150	50.0	25.2
QSM-4550-50	45.0	+0.050 +0.150	50.0	50.0
QSM-5055-50	50.0	+0.050 +0.150	55.0	50.0
QSM-5055-60	50.0	+0.050 +0.150	55.0	60.0
QSM-6065-50	60.0	+0.060 +0.180	65.0	50.0
QSM-6570-34	65.0	+0.060 +0.180	70.0	34.0
QSM-7075-50	70.0	+0.060 +0.180	75.0	50.0
QSM-8085-60	80.0	+0.060 +0.180	85.0	60.0

* after pressfit. Testing methods ► page 55



delivery available
time from stock

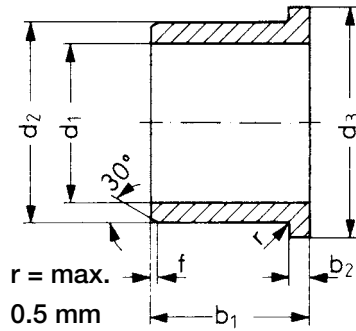


prices price list online
www.igus.eu/eu/q



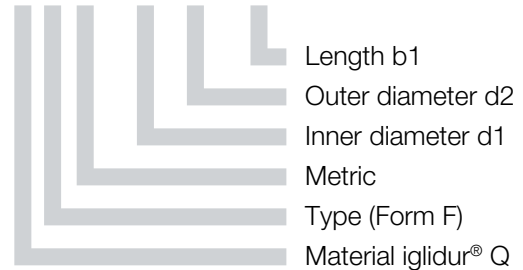
order part number
example QSM-0608-10

Flange bearing



Order key

QFM-0608-04



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 d13	b1 h13	b2 -0.14
QFM-0608-04	6.0	+0.020 +0.068	8.0	12.0	4.0	1.0
QFM-0810-05	8.0	+0.025 +0.083	10.0	15.0	5.5	1.0
QFM-0810-06	8.0	+0.025 +0.083	10.0	15.0	6.0	1.0
QFM-1012-06	10.0	+0.025 +0.083	12.0	18.0	6.0	1.0
QFM-1012-10	10.0	+0.025 +0.083	12.0	18.0	10.0	1.0
QFM-101215-035	10.0	+0.025 +0.083	12.0	15.0	3.5	1.0
QFM-101215-08	10.0	+0.025 +0.083	12.0	15.0	8.0	1.0
QFM-1214-08	12.0	+0.032 +0.102	14.0	20.0	8.0	1.0
QFM-1214-12	12.0	+0.032 +0.102	14.0	20.0	12.0	1.0
QFM-1214-20	12.0	+0.032 +0.102	14.0	20.0	20.0	1.0
QFM-1416-12	14.0	+0.032 +0.102	16.0	22.0	12.0	1.0
QFM-1618-17	16.0	+0.032 +0.102	18.0	24.0	17.0	1.0
QFM-1820-12	18.0	+0.032 +0.102	20.0	26.0	12.0	1.0
QFM-2023-21	20.0	+0.040 +0.124	23.0	30.0	21.5	1.5
QFM-2528-21	25.0	+0.040 +0.124	28.0	35.0	21.5	1.5
QFM-2730-20	27.0	+0.040 +0.124	30.0	38.0	20.0	1.5
QFM-3034-37	30.0	+0.040 +0.124	34.0	42.0	37.0	2.0
QFM-3539-26	35.0	+0.050 +0.150	39.0	47.0	26.0	2.0
QFM-4044-40	40.0	+0.050 +0.150	44.0	52.0	40.0	2.0
QFM-5055-50	50.0	+0.050 +0.150	55.0	63.0	50.0	2.0
QFM-6065-50	60.0	+0.060 +0.180	65.0	78.0	50.0	2.0
QFM-7075-50	70.0	+0.060 +0.180	75.0	83.0	50.0	2.0

* after pressfit. Testing methods ► page 55



delivery available
time from stock



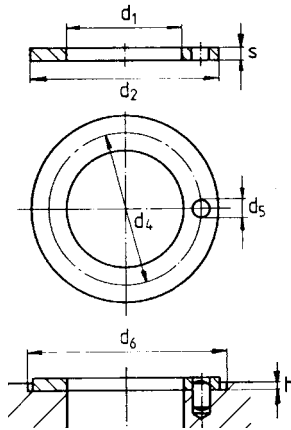
prices price list online
www.igus.eu/eu/q



order part number
example QFM-0608-04

iglidur® Q | Product Range

Thrust washer



Order key

QTM-2842-015



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

Dimensions according to ISO 3547-1 and special dimensions

Dimensions [mm]

Part number	d1 +0.3	d2 -0.3	s -0.06	d4 -0.12/+0.12	d5 -0.375/+0.125	h +0.2/-0.2	d6 +0.12
QTM-2842-015	28.0	42.0	1.5	35.0	4.0	1.0	42.0
QTM-3254-015	32.0	54.0	1.5	43.0	4.0	1.0	54.0

 **delivery** available from stock
time

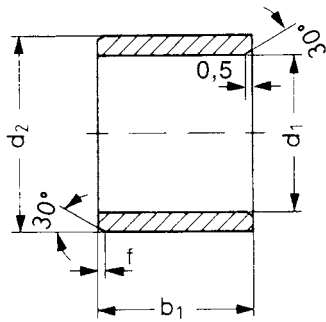


prices price list online
www.igus.eu/eu/q



order part number
example QTM-2842-015

Sleeve bearing



Order key

QSI-0607-04



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

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.
QSI-0607-04	3/8	15/32	1/4	.3773	.3750	.4691	.4684	.3740	.3731
QSI-0607-06	3/8	15/32	3/8	.3773	.3750	.4691	.4684	.3740	.3731
QSI-0607-08	3/8	15/32	1/2	.3773	.3750	.4691	.4684	.3740	.3731
QSI-0708-08	7/16	17/32	1/2	.4406	.4379	.5316	.5309	.4365	.4355
QSI-0809-12	1/2	19/32	3/4	.5030	.5003	.5941	.5934	.4990	.4980
QSI-1011-12	5/8	23/32	3/4	.6280	.6253	.7192	.7184	.6240	.6230
QSI-1214-08	3/4	7/8	1/2	.7541	.7507	.8755	.8747	.7491	.7479
QSI-1214-12	3/4	7/8	3/4	.7541	.7507	.8755	.8747	.7491	.7479
QSI-1214-16	3/4	7/8	1	.7541	.7507	.8755	.8747	.7491	.7479
QSI-1416-16	7/8	1	1	.8791	.8757	1.0005	.9997	.8741	.8729
QSI-1618-16	1	1 1/8	1	1.0041	1.0007	1.1255	1.1247	.9991	.9979
QSI-1618-24	1	1 1/8	1 1/2	1.0041	1.0007	1.1255	1.1247	.9991	.9979
QSI-1820-24	1 1/8	1 9/32	1 1/2	1.1288	1.1254	1.2818	1.2808	1.1238	1.1226
QSI-2022-20	1 1/4	1 13/32	1 1/4	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
QSI-2022-24	1 1/4	1 13/32	1 1/2	1.2548	1.2508	1.4068	1.4058	1.2488	1.2472
QSI-2426-24	1 1/2	1 21/32	1 1/2	1.5048	1.5008	1.6568	1.6558	1.4988	1.4972
QSI-2629-20	1 5/8	1 25/32	1 1/4	1.6297	1.6258	1.7818	1.7808	1.6238	1.6222
QSI-2831-32	1 3/4	1 15/16	2	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
QSI-3235-12	2	2 3/16	3/4	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
QSI-3235-16	2	2 3/16	1	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
QSI-3235-24	2	2 3/16	1 1/2	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
QSI-3235-32	2	2 3/16	2	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
QSI-3235-40	2	2 3/16	2 1/2	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
QSI-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 55



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time from stock



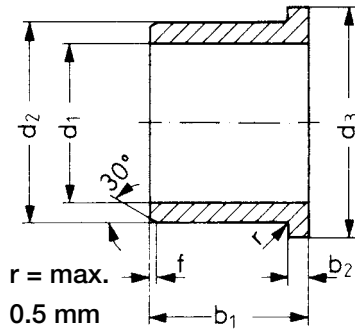
prices price list online
www.igus.eu/eu/q



order part number
example QSI-0607-04

iglidur® Q | Product Range | Inch

Flange bearing



Order key

QFI-0607-04



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

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.
QFI-0607-04	3/8	15/32	1/4	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
QFI-0607-08	3/8	15/32	1/2	.687	.046	.3773	.3750	.4691	.4684	.3740	.3731
QFI-0809-04	1/2	19/32	1/4	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
QFI-0809-08	1/2	19/32	1/2	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
QFI-0809-12	1/2	19/32	3/4	.875	.046	.5030	.5003	.5941	.5934	.4990	.4980
QFI-1011-12	5/8	23/32	3/4	.937	.046	.6280	.6253	.7192	.7184	.6240	.6230
QFI-1012-08	5/8	3/4	3/4	1.000	.062	.6290	.6263	.7510	.7500	.6250	.6240
QFI-1214-08	3/4	7/8	1/2	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
QFI-1214-12	3/4	7/8	3/4	1.125	.062	.7541	.7507	.8755	.8747	.7491	.7479
QFI-1214-16	3/4	7/8	1	1.125	.062	.7541	.7505	.8755	.8747	.7491	.7479
QFI-1416-12	7/8	1	3/4	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
QFI-1416-16	7/8	1	1	1.250	.062	.8791	.8757	1.0005	.9997	.8741	.8729
QFI-1618-08	1	1 1/8	1/2	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
QFI-1618-16	1	1 1/8	1	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
QFI-1618-24	1	1 1/8	1 1/2	1.375	.062	1.0041	1.0007	1.1255	1.1247	.9991	.9979
QFI-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
QFI-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
QFI-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

* after pressfit. Testing methods ► page 55



delivery available
time from stock

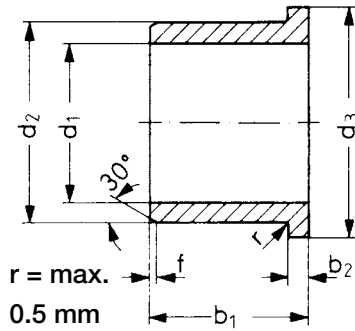


prices price list online
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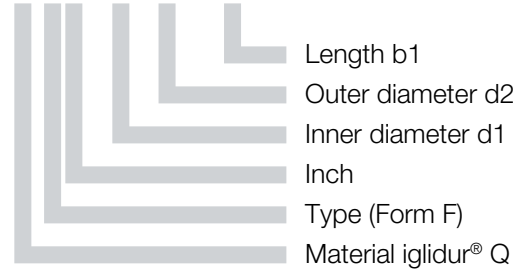
order part number
example QFI-0607-04

Flange bearing



Order key

QFI-0608-04



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.
QFI-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
QFI-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
QFI-2831-32	1 3/4	1 15/16	2	2.375	.093	1.7547	1.7507	1.9381	1.9371	1.7487	1.7471
QFI-3235-32	2	2 3/16	2	2.625	.093	2.0057	2.0011	2.1883	2.1871	1.9981	1.9969
QFI-3639-32	2 1/4	2 7/16	2	2.750	.093	2.2577	2.2531	2.4377	2.4365	2.2507	2.2489

* after pressfit. Testing methods ► page 55



delivery available
time from stock



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



order part number
example QFI-2022-24