

iglidur® X

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# iglidur® X – The High-Tech Problem Solver



- 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

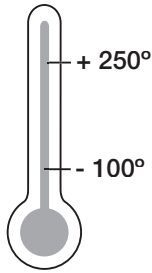
iglidur® X is defined by its combination of high temperature resistance with compressive strength, along with high resistance to chemicals. iglidur® X is designed for higher speeds than other iglidur® bearings.

iglidur® X

3 styles  
> 250 dimensions  
Ø 2–75 mm



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iglus® GmbH  
51147 Cologne

Price index



## The High-Tech Problem Solver

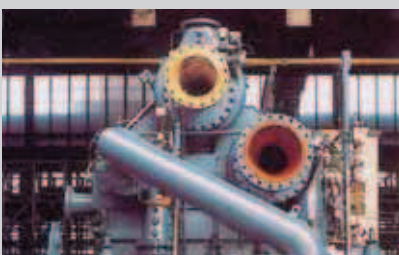


When to use iglidur® X plain bearings:

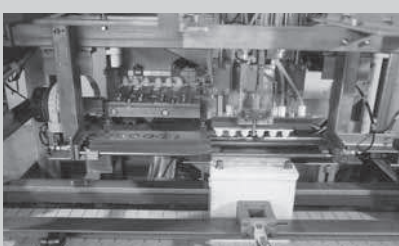
- For pressure loads up to 150 MPa
- For linear movements with stainless steel
- For linear movements, especially at high temperatures
- When universal resistance to chemicals is required
- Temperature resistant from -100°C to +250°C (short term to + 315°C)
- Very low moisture absorption
- High wear resistance over the entire temperature range

When not to use iglidur® X plain bearings:

- For very low wear at high loads  
▶ iglidur® Q (chapter 18),  
iglidur® Z (chapter 22)
- For underwater applications  
▶ iglidur® H (chapter 12),  
iglidur® H370 (chapter 15)
- For edge pressure  
▶ iglidur® Z (chapter 22)



Picture 6.1: High temperature resistant and maintenance free



Picture 6.2: Battery filling



**Material Table**

General Properties	Unit	iglidur® X	Testing Method
Density	g/cm <sup>3</sup>	1,44	
Colour		Black	
Max. moisture absorption at 23°C / 50% r.F.	% weight	0,1	DIN 53495
Max. moisture absorption	% weight	0,5	
Coefficient of sliding friction, dynamic against steel $\mu$		0,09 - 0,27	
$p \times v$ value, max. (dry)	MPa x m/s	1,32	
<b>Mechanical Properties</b>			
Modulus of elasticity	MPa	8.100	DIN 53457
Tensile strength at 20°C	MPa	170	DIN 53452
Compressive strength	MPa	100	
Max. recommended surface pressure (20°C)	MPa	150	
Shore D hardness		85	DIN 53505
<b>Physical and Thermal Properties</b>			
Max. long term application temperature	°C	250	
Max. short term application temperature	°C	315	
Min. application temperature	°C	-100	
Thermal conductivity	W/m x K	0,6	ASTM C 177
Coefficient of thermal expansion (to 23°C)	K <sup>-1</sup> x 10 <sup>-5</sup>	5	DIN 53752
<b>Electrical Properties<sup>1)</sup></b>			
Specific volume resistance	$\Omega$ cm	< 10 <sup>5</sup>	DIN IEC 93
Surface resistance	$\Omega$	< 10 <sup>3</sup>	DIN 53482

<sup>1)</sup> The good conductivity of this plastic material under certain circumstances can favour the generation of corrosion on the metallic contact component

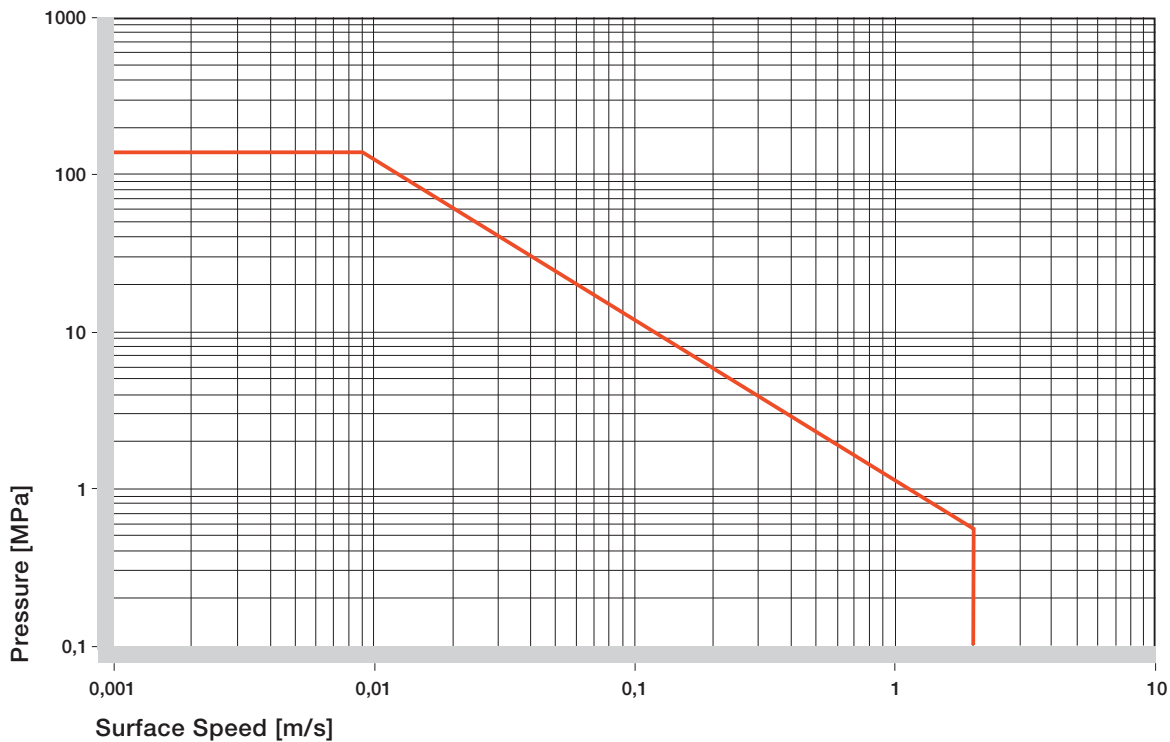


Picture 6.3: Flaps, valves with iglidur® X, high temperatures



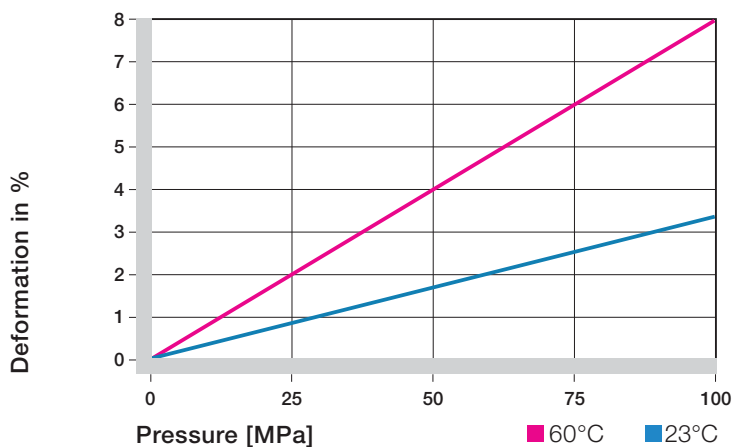
Picture 6.4: Catering equipment

Table 6.1: Material Data



Graph. 6.1: Permissible  $p \times v$  values for iglidur® X running dry against a steel shaft, at 20°C

Navigation icons: +, -, i, mm, Inch



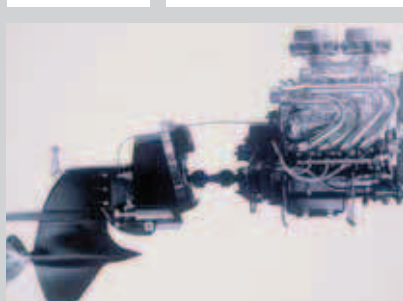
Graph 6.2: Deformation under pressure and temperature

iglidur® X has an excellent combination of high temperature resistance, high compressive strength, and excellent resistance to chemicals.

## Surface Pressure

Graph 6.2 shows how iglidur® X plain bearings deform elastically under load. Graph 6.1 on the preceding page shows the maximum p x v values at room temperature. In this case, the compressive strength of iglidur® X even measures up to that of steel.

Graph 6.3 shows the special compression resistance of iglidur® X at very high temperatures. Even at the highest long term application temperature of 250°C iglidur® X plain bearings still withstand a surface pressure of approximately 30 MPa.



Picture 6.5: Application on an inboard engine

m/s	Rotating	Oscillating	Linear
Continuous	1,5	1,1	5
Short term	3,5	2,5	10

Table 6.2: Maximum surface speeds

Graph 6.2

Surface Pressure, page 1.18

iglidur® X	Application Temperature
Minimum	-100 °C
Max., long term	+250 °C
Max., short term	+315 °C

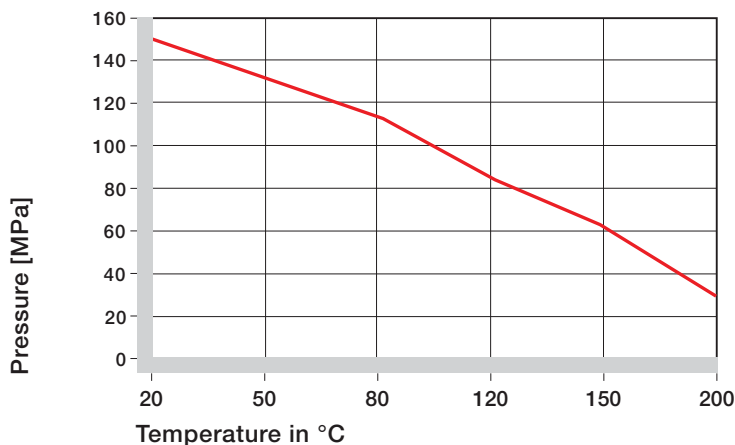
Table 6.3: Temperature limits for iglidur® X

## 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 x 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 1.20

p x v value, page 1.22



Graph 6.3: Recommended maximum surface pressure of iglidur® X as a function of temperature



## Temperature

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.

- ☑ Graphs 6.3 and 6.4
- ▶ Application Temperatures, page 1.23

## Friction and Wear

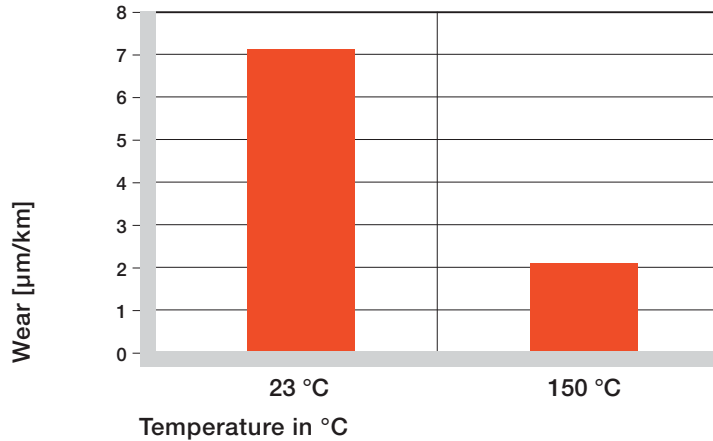
Similar to wear resistance, the coefficient of friction also changes with the load. The coefficient of friction increases with an increase in surface speed. On the other hand, an increased load has an inverse effect: the coefficient of friction decreases (see Graphs 6.5 and 6.6). This explains the excellent performance of iglidur® X plain bearings for high loads.

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 are ideal.

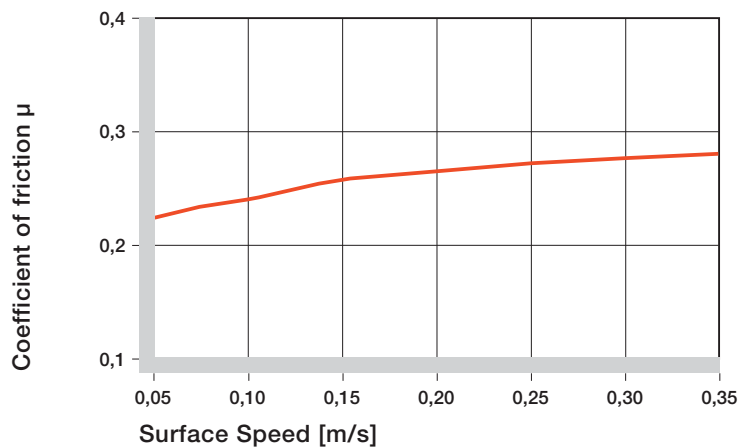
- ☑ Graphs 6.5 to 6.7
- ▶ Coefficients of Friction and Surfaces, page 1.25
- ▶ Wear Resistance, page 1.26

iglidur® X	Dry	Grease	Oil	Water
C.o.f. [ $\mu$ ]	0,09–0,27	0,09	0,04	0,04

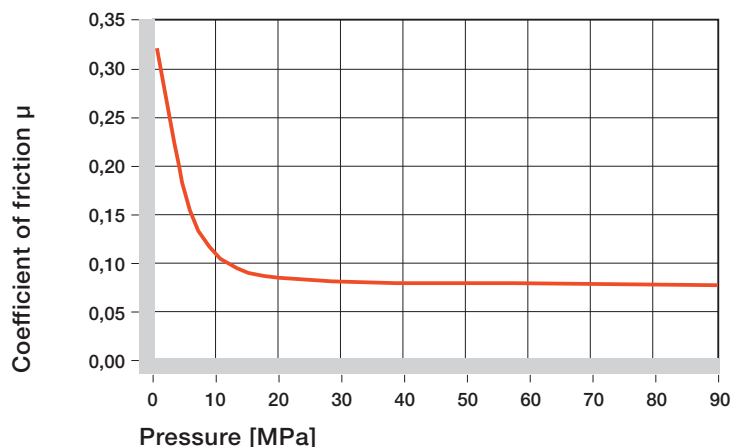
**Table 6.4: Coefficient of friction for iglidur® X against steel (Ra = 1 $\mu$ m, 50 HRC)**



**Graph 6.4: Wear of iglidur® X, rotation with  $p = 0.75$  MPa,  $v = 0.5$  m/s, Cf53 hardened and ground steel shaft**



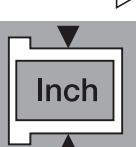
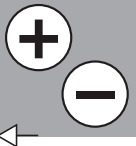
**Graph 6.5: Coefficient of friction for iglidur® X as a function of the surface speed;  $p = 0.75$  MPa, Cf53 hardened and ground steel shaft**

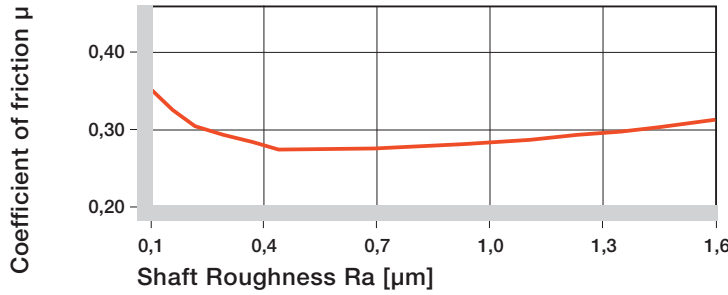


**Graph 6.6: Coefficient of friction for iglidur® X as a function of the pressure,  $v = 0.01$  m/s**

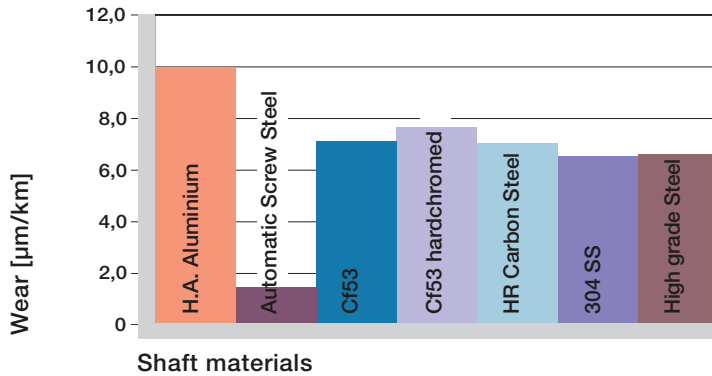
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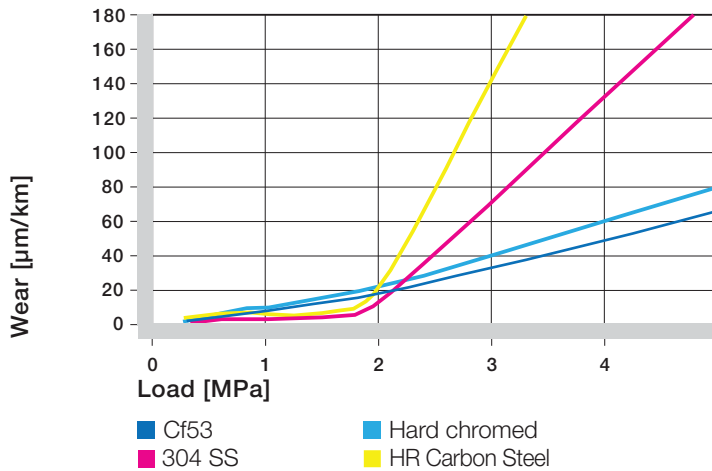




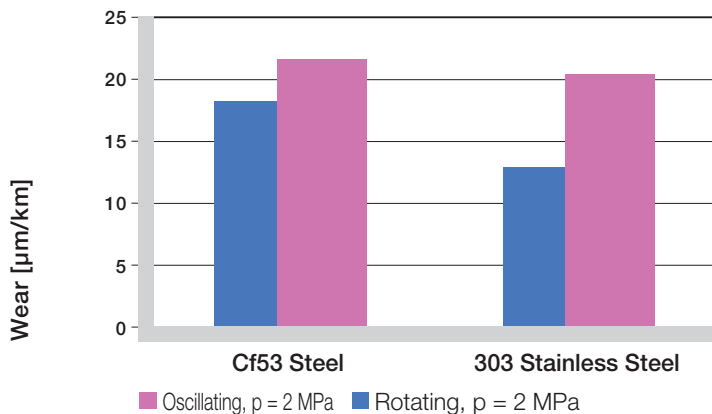
Graph 6.7: Coefficients of friction as a function of the shaft surface (Cf53 hardened and ground steel shaft)



Graph 6.8: Wear of iglidur® X with different shaft materials,  $p = 0.75 \text{ MPa}$ ,  $v = 0.5 \text{ m/s}$



Graph 6.9: Wear of iglidur® X with different shaft materials



Graph 6.10: Wear for oscillating and rotating applications ( $p = 2 \text{ MPa}$ ) with different shaft materials

## Shaft Materials

Graphs 6.7 and 6.8 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 are advantageous. 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.

☑ Graphs 6.8 to 6.10

▶ Shaft Materials, pages 1.28

## 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. Please adhere to the catalogue specifications for housing bore and recommended shaft sizes. This will help to ensure optimal performance of iglidur® plain bearings. Please contact an iglidur® technical expert if you have any question.

▶ Testing Methods, page 1.35

## Chemical Resistance

iglidur® X plain bearings have almost universal chemical resistance.

The material is only attacked by concentrated nitric acid and by sulphuric acid with acidity levels over 65%. The list at the end of this catalogue provides more comprehensive detailed information.

☑ Graph 6.11

▶ Chemical Table, pages 70.1



## Radiation Resistance

Plain bearings made from iglidur® X are resistant to radiation up to an intensity of  $1 \times 10^5$  Gy. iglidur® X is the most radioactive resistant material of the iglidur® product line. iglidur® X is extremely resistant to hard gamma radiation and withstands a radiation dose of 1000 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 electrically conductive.

## Application Example



Picture 6.6: iglidur® X plain bearing in a valve

Diameter d1 [mm]	Shaft h9 [mm]	iglidur® X F10 [mm]
up to 3	0-0,025	+0,006 +0,046
> 3 to 6	0-0,030	+0,010 +0,058
> 6 to 10	0-0,036	+0,013 +0,071
> 10 to 18	0-0,043	+0,016 +0,086
> 18 to 30	0-0,052	+0,020 +0,104
> 30 to 50	0-0,062	+0,025 +0,125
> 50 to 80	0-0,074	+0,030 +0,150

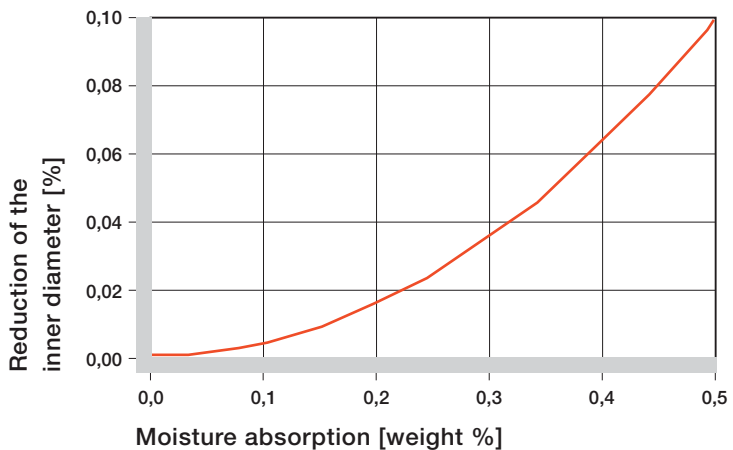
Table 6.5: Essential tolerances for iglidur® X plain bearings according to ISO 3547-1 after pressfit

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

Table 6.6: Chemical resistance of iglidur® X – detailed list, page 70.1

+ resistant 0 conditionally resistant – not resistant

All data given at room temperature [20°C]



Graph 6.11: Effect of moisture absorption on iglidur® X plain bearings

iglidur® X	
Specific volume resistance	$> 10^5 \Omega \text{cm}$
Surface resistance	$> 10^3 \Omega$

Table 6.7: Electrical properties of iglidur® X

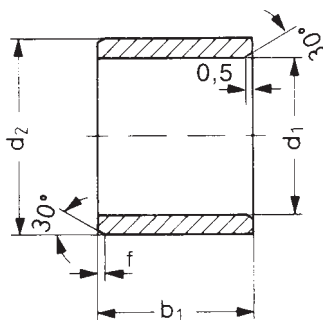
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Navigation icons: Plus (+), Information (i), Minus (-), and a vertical bar (|). Below these are unit selection buttons for 'mm' and 'Inch'.



# iglidur® X | Sleeve Bearing | mm



Data in mm

Structure – part no.  
**X S M-0203-03**



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 according to ISO 3547-1 and special dimensions

Part Number	d1	d1 Tolerance*	d2	b1	Part Number	d1	d1 Tolerance*	d2	b1
				h13					h13
XSM-0203-03	2,0	+0,006 +0,046	3,5	3,0	XSM-1214-06	12,0	+0,016 +0,086	14,0	6,0
XSM-0304-03	3,0	+0,006 +0,046	4,5	3,0	XSM-1214-08	12,0	+0,016 +0,086	14,0	8,0
XSM-0304-06	3,0	+0,006 +0,046	4,5	6,0	XSM-1214-10	12,0	+0,016 +0,086	14,0	10,0
XSM-0405-04	4,0	+0,010 +0,058	5,5	4,0	XSM-1214-12	12,0	+0,016 +0,086	14,0	12,0
XSM-0507-035	5,0	+0,010 +0,058	7,0	3,5	XSM-1214-15	12,0	+0,016 +0,086	14,0	15,0
XSM-0507-05	5,0	+0,010 +0,058	7,0	5,0	XSM-1214-20	12,0	+0,016 +0,086	14,0	20,0
XSM-0507-08	5,0	+0,010 +0,058	7,0	8,0	XSM-1416-12	14,0	+0,016 +0,086	16,0	12,0
XSM-0608-06	6,0	+0,010 +0,058	8,0	6,0	XSM-1416-15	14,0	+0,016 +0,086	16,0	15,0
XSM-0608-08	6,0	+0,010 +0,058	8,0	8,0	XSM-1416-20	14,0	+0,016 +0,086	16,0	20,0
XSM-0608-10	6,0	+0,010 +0,058	8,0	10,0	XSM-1517-10	15,0	+0,016 +0,086	17,0	10,0
XSM-0608-13	6,0	+0,010 +0,058	8,0	13,8	XSM-1517-15	15,0	+0,016 +0,086	17,0	15,0
XSM-0709-12	7,0	+0,013 +0,071	9,0	12,0	XSM-1517-20	15,0	+0,016 +0,086	17,0	20,0
XSM-0810-06	8,0	+0,013 +0,071	10,0	6,0	XSM-1618-10	16,0	+0,016 +0,086	18,0	10,0
XSM-0810-08	8,0	+0,013 +0,071	10,0	8,0	XSM-1618-12	16,0	+0,016 +0,086	18,0	12,0
XSM-0810-10	8,0	+0,013 +0,071	10,0	10,0	XSM-1618-15	16,0	+0,016 +0,086	18,0	15,0
XSM-0810-12	8,0	+0,013 +0,071	10,0	12,0	XSM-1618-20	16,0	+0,016 +0,086	18,0	20,0
XSM-0810-15	8,0	+0,013 +0,071	10,0	15,0	XSM-1618-35	16,0	+0,016 +0,086	18,0	35,0
XSM-1012-06	10,0	+0,013 +0,071	12,0	6,0	XSM-1719-20	17,0	+0,016 +0,086	19,0	20,0
XSM-1012-08	10,0	+0,013 +0,071	12,0	8,0	XSM-1820-15	18,0	+0,016 +0,086	20,0	15,0
XSM-1012-10	10,0	+0,013 +0,071	12,0	10,0	XSM-1820-20	18,0	+0,016 +0,086	20,0	20,0
XSM-1012-12	10,0	+0,013 +0,071	12,0	12,0	XSM-2022-140	20,0	+0,020 +0,104	22,0	14,0
XSM-1012-20	10,0	+0,013 +0,071	12,0	20,0	XSM-2022-145	20,0	+0,020 +0,104	22,0	14,5
XSM-1214-035	12,0	+0,016 +0,086	14,0	3,5	XSM-2022-18	20,0	+0,020 +0,104	22,0	18,0

\*after pressfit. Testing methods ► page 1.35

## Order example

Our price breaks are defined by the order quantity.

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For the current prices please visit the igus®-Homepage [www.igus.de/en](http://www.igus.de/en)

No minimum order quantities, no surcharges.



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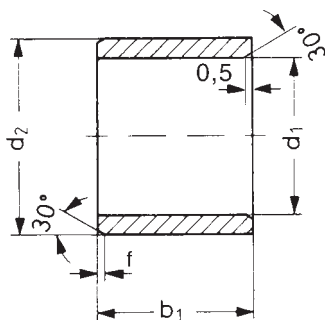
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igus® GmbH  
51147 Cologne

mm

iglidur® X – Type S





Data in mm

Structure – part no.  
**X S M-2022-30**



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

Part Number	d1	d1 Tolerance*	d2	b1 h13
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
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

Part Number	d1	d1 Tolerance*	d2	b1 h13
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
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
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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 1.35



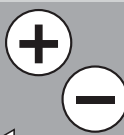
The extreme resistance to chemicals was decisive for the application of iglidur® X bearings in flange ball valves.

Lifetime calculation, CAD files and much more support ► [www.igus.de/en/x](http://www.igus.de/en/x)

iglidur® X – Type S

mm

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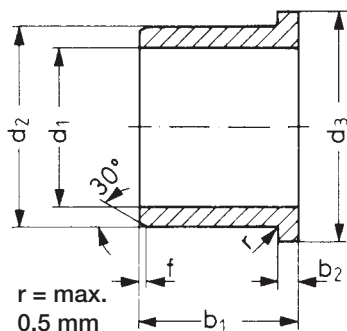


Inch

mm



# iglidur® X | Flange Bearing | mm



Data in mm

Structure – part no.  
**X F M-020406-03**



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 according to ISO 3547-1 and special dimensions

Part Number	d1	d1 Tolerance*	d2	d3	b1	b2
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
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	+0,015 +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

\*after pressfit. Testing methods ► page 1.35

mm

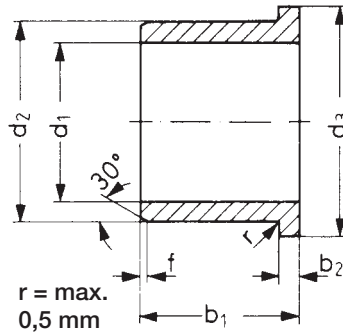
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# iglidur® X | Flange Bearing | mm



Data in mm

Structure – part no.  
**X F M-2023-16**



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

Part Number	d1	d1 Tolerance*	d2	d3	b1	b2
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

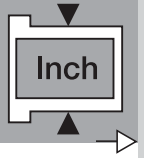
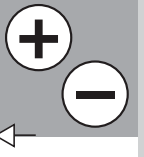
\*after pressfit. Testing methods ► page 1.35



iglidur® X – Type F

mm

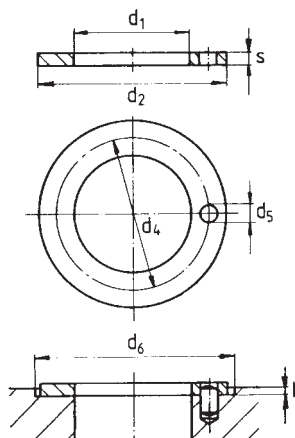
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igus®

# iglidur® X | Thrust Washer | mm



Data in mm

Structure - part no.  
**X T M-0620-015**



- Material
- Type
- Metrik
- d1
- d2
- s

Dimensions according to ISO 3547-1 and special dimensions

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-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

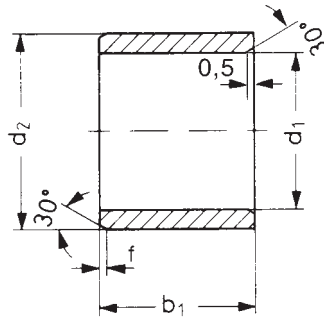
mm

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Data in inches

Structure – part no.  
**X S I -0203-03**



- b1
- d2
- d1
- Inch
- Type
- Material

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

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
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

\*after pressfit. Testing methods ► page 1.35

iglidur® X – Type S

inch

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# iglidur® X | Sleeve Bearing | inch

inch

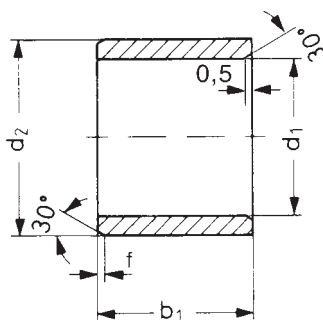
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6.14



Data in inches

Structure – part no.  
**X S I -1214-08**



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

Part Number	d1	d2	b1	d1*		Housing Bore		Shaft Size	
				max.	min.	max.	min.	max.	min.
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 1.35

## Order example

Our price breaks are defined by the order quantity.

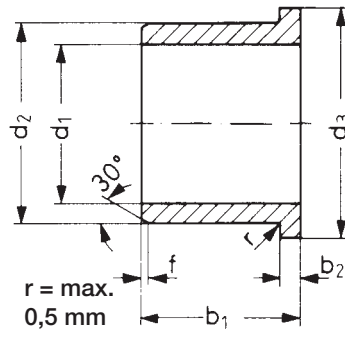
1– 9	25–49	100–199	500– 999	2500–4999
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No minimum order quantities, no surcharges.



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Data in inches

Structure – part no.  
**X F I -0203-03**



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

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
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

\*after pressfit. Testing methods ► page 1.35

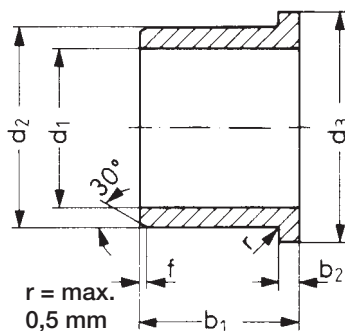
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# iglidur® X | Flange Bearing | inch



Data in inches

Structure – part no.  
**X F I -2022-20**



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

Part Number	d1	d2	b1	d3	b2	d1*		Housing Bore		Shaft Size	
						max.	min.	max.	min.	max.	min.
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 1.35

inch

iglidur® X – Type F

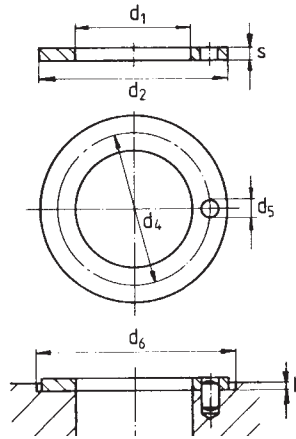
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igus® GmbH  
51147 Cologne

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E-mail [info@igus.de](mailto:info@igus.de)

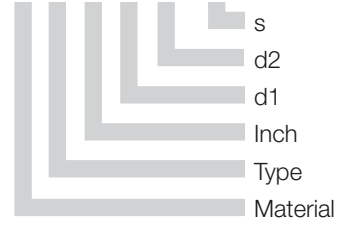


# iglidur® X | Thrust Washer | inch



Data in inches

Structure - part no.  
**X T I -0814-01**

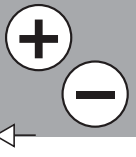


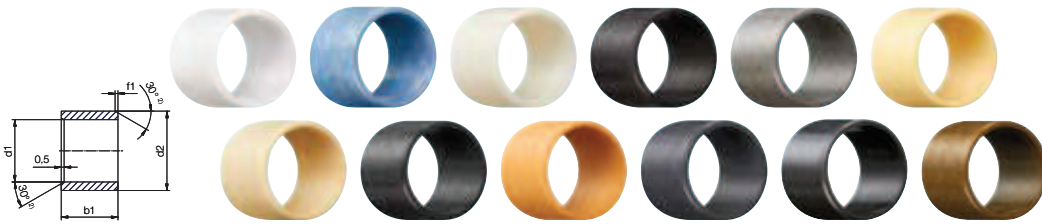
Part Number	d1	d2	s	d4	d5	h	d6
	+ <sub>010</sub>	- <sub>010</sub>	- <sub>0020</sub>	± <sub>005</sub>	<sub>015</sub> + <sub>005</sub>	+ <sub>008</sub>	+ <sub>005</sub>
<b>XTI-0814-01</b>	,500	,875	,0585	,692	,067	,040	,875
<b>XTI-1018-01</b>	,625	1,125	,0585	,880	,099	,040	1,125
<b>XTI-1220-01</b>	,750	1,250	,0585	1,005	,099	,040	1,250
<b>XTI-1424-01</b>	,875	1,500	,0585	1,192	,130	,040	1,500
<b>XTI-1628-01</b>	1,000	1,750	,0585	1,380	,130	,040	1,750
<b>XTI-1826-01</b>	1,125	1,625	,0585	-	-	,040	1,625
<b>XTI-2034-01</b>	1,250	2,125	,0585	1,692	,161	,040	2,125
<b>XTI-2440-01</b>	1,500	2,500	,0585	2,005	,192	,040	2,500
<b>XTI-2844-01</b>	1,750	2,750	,0585	2,255	,192	,040	2,750
<b>XTI-3248-01</b>	2,000	3,000	,0895	2,505	,192	,070	3,000

iglidur® X - Type T

inch

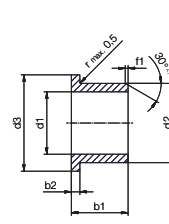
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Dimensions sleeve Abmessungen zylindrisch [mm]

Part No. Art.-Nr.	d1	d1 tolerance d1-Toleranz	d2	b1 h13
A180SM-0810-15	8.0	+0.025 +0.083	10.0	15.0
A350SM-1416-12	14.0	+0.016 +0.068	16.0	12.0
C500SM-3034-30	30.0	+0.020 +0.104	34.0	30.0
F2SM-1214-15	12.0	+0.032 +0.102	14.0	15.0
F2SM-1618-20	16.0	+0.032 +0.102	18.0	20.0
GSM-0406-06	4.0	+0.020 +0.068	6.0	6.0
GSM-0810-36	8.0	+0.025 +0.083	10.0	36.0
GSM-120125-78	120.0	+0.072 +0.212	125.0	78.0
GSM-1214-45	12.0	+0.032 +0.102	14.0	45.0
GSM-1820-30	18.0	+0.032 +0.102	20.0	30.0
GSM-1822-15	18.0	+0.032 +0.102	22.0	15.0
GSM-2021-095	20.0	+0.020 +0.072	21.0	9.5
JSM-0814-08	8.0	+0.040 +0.130	14.0	8.0
JSM-1216-06	12.0	+0.050 +0.0160	16.0	6.0
JSM-1218-10	12.0	+0.050 +0.0160	18.0	10.0
JSM-1315-06	13.0	+0.050 +0.0160	15.0	6.0
JSM-1620-20	16.0	+0.050 +0.0160	20.0	20.0
JSM-6065-100	60.0	+0.060 +0.180	65.0	100.0
MSM-1620-10	16.0	+0.050 +0.0160	20.0	10.0
P210SM-1214-04	12.0	+0.032 +0.102	14.0	4.0
PSM-0608-05	6.0	+0.020 +0.068	8.0	5.0
PSM-0812-10	8.0	+0.040 +0.130	12.0	10.0
PSM-3236-15	32.0	+0.050 +0.150	36.0	15.0
Q2SM-1012-04	10.0	+0.025 +0.083	12.0	4.0
Q2SM-4246-52	42.0	+0.050 +0.150	46.0	52.0
X6SM-1416-22	14.0	+0.016 +0.086	16.0	22.0
X6SM-1618-12	16.0	+0.016 +0.086	18.0	12.0
X6SM-2023-15	20.0	+0.020 +0.104	23.0	15.0
ZSM-2225-35	22.0	+0.020 +0.104	25.0	35.0
ZSM-6065-25	60.0	+0.030 +0.150	65.0	25.0
ZSM-9095-100	90.0	+0.036 +0.176	95.0	100.0



Dimensions with flange Abmessungen mit Bund [mm]

Part No. Art.-Nr.	d1	d1 tolerance d1-Toleranz	d2	d3	b1 h13	b2
GFM-060710-06	6.0	+0.010 +0.040	7.0	10.0	6.0	0.5
GFM-0812-16	8.0	+0.040 +0.130	12.0	16.0	16.0	2.0
GFM-101115-03	10.0	+0.013 +0.046	11.0	15.0	3.0	1.0
GFM-1012-11	10.0	+0.025 +0.083	12.0	18.0	11.0	1.0
GFM-1012-25	10.0	+0.025 +0.083	12.0	18.0	25.0	1.0
GFM-1719-07	17.0	+0.032 +0.102	19.0	25.0	7.0	1.0
GFM-2527-12	25.0	+0.040 +0.124	27.0	32.0	12.0	1.0
GFM-2527-15	25.0	+0.040 +0.124	27.0	32.0	15.0	1.0
GFM-3034-12	30.0	+0.040 +0.124	34.0	42.0	12.0	2.0
GFM-303440-07	30.0	+0.040 +0.124	34.0	40.0	7.0	2.0
H1FM-0405-06	4.0	+0.010 +0.058	5.5	9.5	6.0	0.8
J350FM-6065-50	60.0	+0.030 +0.150	65.0	73.0	50.0	2.0
J3FM-081418-15	8.0	+0.025 +0.083	14.0	18.0	15.0	2.0
JFM-040810-15	4.0	+0.020 +0.068	8.0	10.0	15.0	2.0
JFM-0810-03	8.0	+0.025 +0.083	10.0	15.0	3.0	1.0
JFM-121419-06	12.0	+0.032 +0.102	14.0	19.0	6.0	1.0
JFM-121622-20	12.0	+0.050 +0.0160	16.0	22.0	20.0	2.0
JFM-2023-07	20.0	+0.040 +0.124	23.0	30.0	7.0	1.5
PFM-1214-08	12.0	+0.032 +0.102	14.0	8.0	20.0	1.0
PFM-1618-08	16.0	+0.032 +0.102	18.0	8.0	24.0	1.0
P210FM-0405-06	4.0	+0.020 +0.068	5.5	9.5	6.0	0.8
Q290FM-8085-100	80.0	+0.060 +0.180	85.0	93.0	100.0	2.5
Q2FM-101219-13	10.0	+0.025 +0.083	12.0	19.0	13.0	1.0
Q2FM-1013-05	10.0	+0.025 +0.083	13.0	20.0	5.0	1.0
Q2FM-2023-07	20.0	+0.040 +0.124	23.0	30.0	7.0	1.5
QFM-101215-04	10.0	+0.025 +0.083	12.0	15.0	4.0	1.0
QFM-121418-06	12.0	+0.032 +0.102	14.0	18.0	6.0	1.0
WFM-2023-08	20.0	+0.040 +0.124	23.0	30.0	8.0	1.5
XFM-1214-50	12.0	+0.016 +0.086	14.0	50.0	20.0	1.0
X6FM-0608-04	6.0	+0.010 +0.058	8.0	12.0	4.0	1.0
ZFM-1012-25	10.0	+0.013 +0.071	12.0	18.0	25.0	1.0
ZFM-2023-075	20.0	+0.020 +0.104	23.0	30.0	7.5	1.5

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