



iglidur® A200

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# iglidur® A200 – Very Appetising



iglidur® A200 material complies with FOOD AND DRUG ADMINISTRATION (FDA) regulations

For direct contact with food or pharmaceuticals

For low speeds

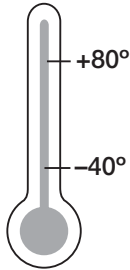
The material of iglidur® A200 is made according to the requirements of the FDA for use in direct contact with food and pharmaceuticals. The iglidur® A200 bearings are an ideal solution for bearing applications on machines that manufacture consumables, pharmaceuticals, medical devices, small household appliances, etc.

iglidur® A200

3 styles  
> 200 dimensions  
Ø 1–32 mm



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igus® GmbH  
51147 Cologne

Price index



## Very Appetising



When to use iglidur® A200 plain bearings:

- Suitable for direct contact with food
- When quiet operation is important
- When dirt needs to become embedded
- iglidur® A200 material complies with FOOD AND DRUG ADMINISTRATION (FDA) regulations

When not to use iglidur® A200 plain bearings:

- When the maximum abrasion resistance is necessary  
▶ iglidur® W300 (chapter 5)
- When temperatures are continuously greater than 80°C  
▶ iglidur® A290 (chapter 9),  
    igidur® A500 (chapter 10)
- When a cost-effective universal bearing is desired  
▶ iglidur® G (chapter 2)
- For operations in wet environments  
▶ iglidur® A180 (chapter 7)



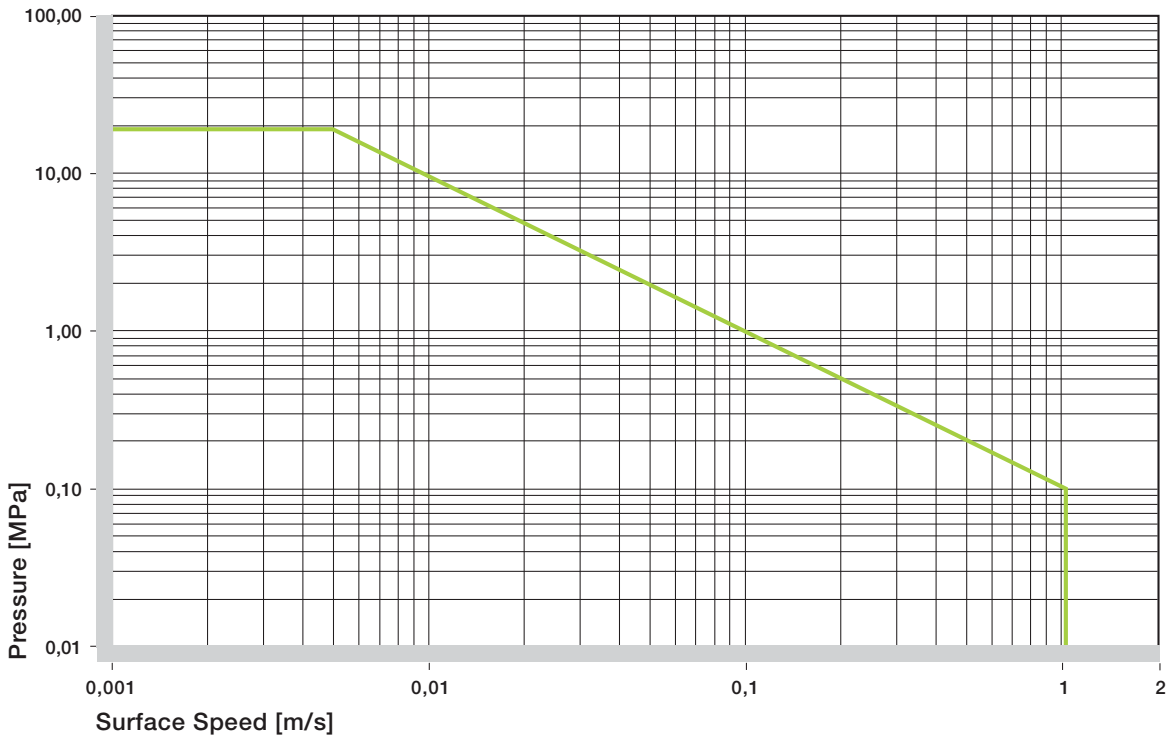
products of iglidur® A200 comply with the requirements of the FDA for repeated contact with food

Internet [www.igus.de](http://www.igus.de)  
E-mail [info@igus.de](mailto:info@igus.de)

**Material Table**

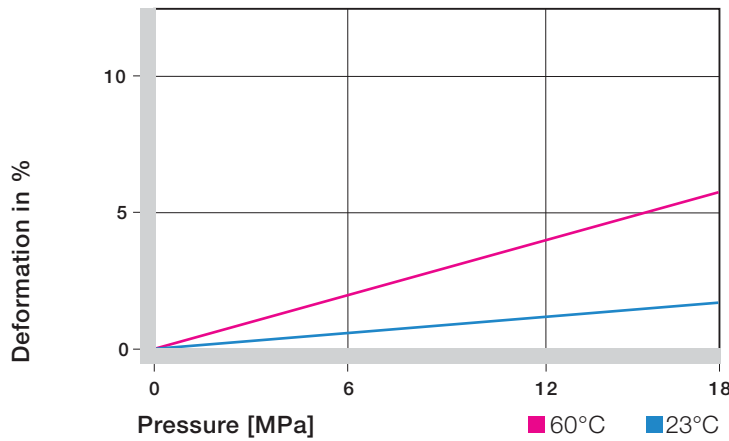
General Properties	Unit	iglidur® A200	Testing Method
Density	g/cm <sup>3</sup>	1,14	
Colour		White	
Max. moisture absorption at 23°C / 50% r.F.	% weight	1,5	DIN 53495
Max. moisture absorption	% weight	7,6	
Coefficient of sliding friction, dynamic against steel $\mu$		0,10 - 0,40	
$p \times v$ value, max. (dry)	MPa x m/s	0,09	
<b>Mechanical Properties</b>			
Modulus of elasticity	MPa	2.500	DIN 53457
Tensile strength 20°C	MPa	116	DIN 53452
Compressive strength	MPa	54	
Max. recommended surface pressure (20°C)	MPa	18	
Shore D hardness		81	DIN 53505
<b>Physical and Thermal Properties</b>			
Max. long term application temperature	°C	80	
Max. short term application temperature	°C	170	
Min. application temperature	°C	-40	
Thermal conductivity	W/m x K	0,24	ASTM C 177
Coefficient of thermal expansion (at 23°C)	K <sup>-1</sup> x 10 <sup>-5</sup>	10	DIN 53752
<b>Electrical Properties</b>			
Specific volume resistance	$\Omega$ cm	> 10 <sup>13</sup>	DIN IEC 93
Surface resistance	$\Omega$	> 10 <sup>12</sup>	DIN 53482

Table 8.1: Material Data



Graph 8.1: Permissible  $p \times v$  values for iglidur® A200 running dry against a steel shaft, at 20°C

Navigation icons: Home (+), Information (i), and unit selection (mm, Inch).



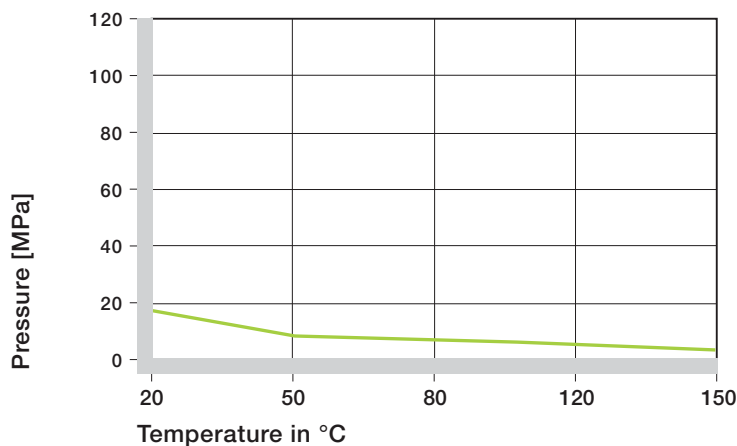
Graph 8.2: Deformation under pressure and temperature

m/s	Rotating	Oscillating	Linear
Continuous	0,8	0,6	2
Short term	1,5	1,1	3

Table 8.2: Maximum surface speeds

iglidur® A200 Application Temperature	
Minimum	-40 °C
Max. long term	+80 °C
Max. short term	+170 °C

Table 8.3: Temperature iglidur® A200



Graph 8.3: Recommended maximum surface pressure of iglidur® A200 as a function of temperature

The material of iglidur® A200 is FDA approved for use in direct contact with food. The iglidur® A200 bearings are an ideal solution for bearing applications on machines that manufacture consumables, medical devices, small household appliances, etc. In order to achieve the benefit of food compatibility, mixing with solid lubricants must be avoided. The thermoplastic alloy of iglidur® A200 is used for abrasion resistance. Furthermore, iglidur® A200 is characterised by its capacity for embedding dirt and by its quiet running behaviour.

## Surface Pressure

The high abrasion resistance, the resistance to dirt, and the ability to run dry make it possible to eliminate the customary, expensive protective seals of lubricated bearings. Graph 8.2 shows the elastic deformation of iglidur® A200 for radial loads. At the recommended maximum surface pressure of 18 MPa the deformation is less than 2%.

Plastic deformation is minimal up to this radial load. However, it is also a result of the service time.

Graph 8.2

Surface Pressure, page 1.18

## Permissible Surface Speeds

iglidur® A200 was developed for low surface speeds. With regard to running dry in continuous use, a maximum of 0.8 m/s (rotating) or 2 m/s (linear) is possible.

These given values indicate the limits at which an increase up to the continuous permissible temperature occurs. This increase is a result of friction. In practice, these limit values are not often reached, due to varying application conditions.

Surface Speed, page 1.20

p x v value, page 1.22

## Temperatures

The maximum permissible short term temperature is 170°C. With increasing temperatures, the compressive strength of iglidur® A200 plain bearings decreases. Graph 8.3 shows this relationship. The ambient temperatures prevalent in the bearing system also have an effect on the bearing wear.

- ☑ Graph 8.3
- ▶ Application Temperatures, page 1.23

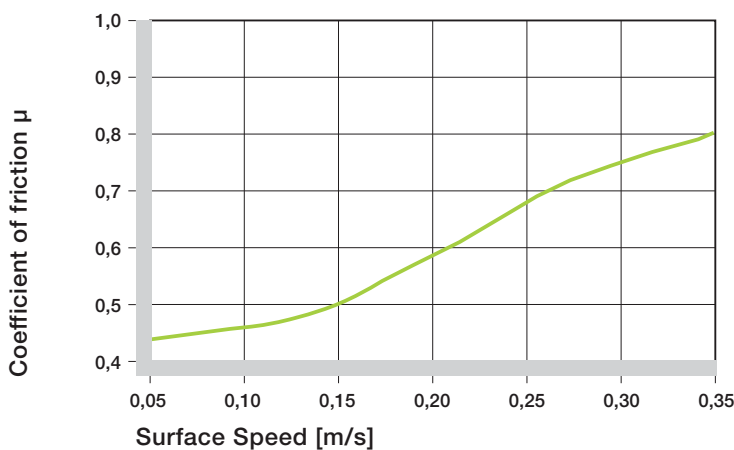
## Friction and Wear

Just as the wear resistance, the coefficient of friction also changes with the load. For iglidur® A200 plain bearings, the coefficient of friction  $\mu$  decreases slightly with increasing load. To a large extent, friction and wear are also dependent on the shaft material. Shafts that are too smooth not only increase the coefficient of friction, they can also increase the wear of the bearing. Ground surfaces with an average roughness greater than  $Ra = 0.4$  to  $0.6 \mu\text{m}$  are recommended.

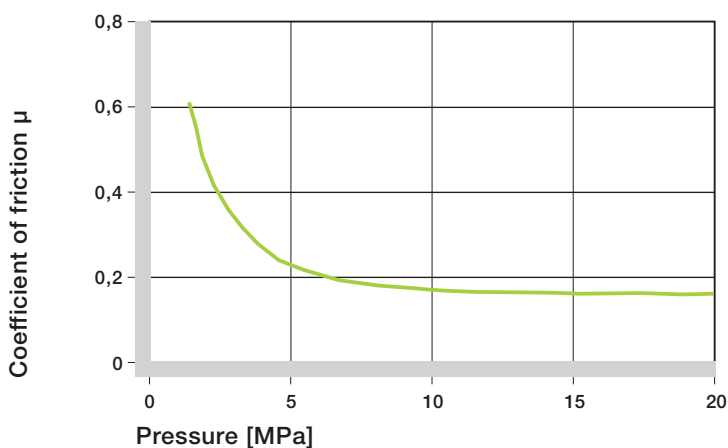
- ☑ Graphs 8.4 to 8.6
- ▶ Coefficients of Friction and Surfaces, page 1.25
- ▶ Wear Resistance, page 1.26

iglidur® A200	Dry	Grease	Oil	Water
C.o.f. [ $\mu$ ]	0,1–0,4	0,09	0,04	0,04

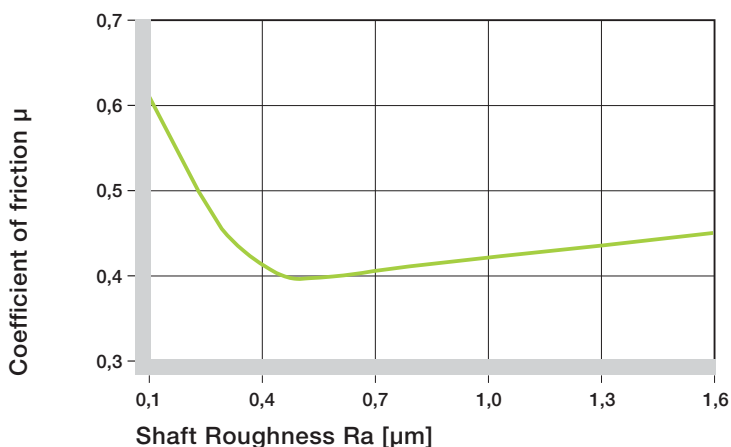
**Table 8.4: Coefficient of friction of iglidur® A200 against steel ( $Ra = 1 \mu\text{m}$ , 50 HRC)**



**Graph 8.4: Coefficients of friction of iglidur® A200 as a function of the running speed;  $p = 0.75 \text{ MPa}$**



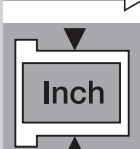
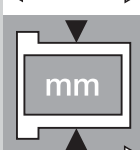
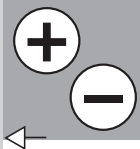
**Graph 8.5: Coefficients of friction of iglidur® A200 as a function of the pressure,  $v = 0.01 \text{ m/s}$**

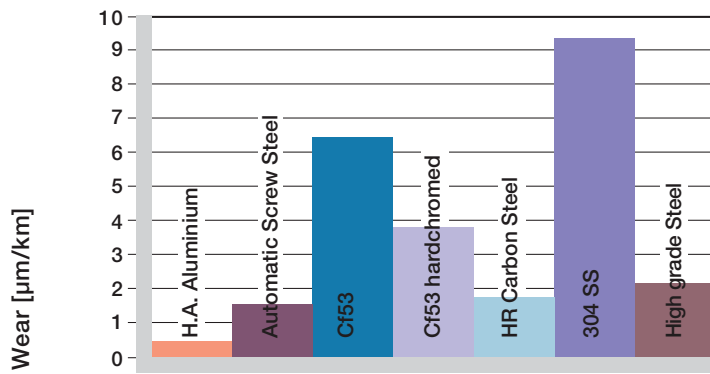


**Graph 8.6: Coefficients of friction of iglidur® A200 as a function of the shaft surface (Cf53 hardened and ground steel)**

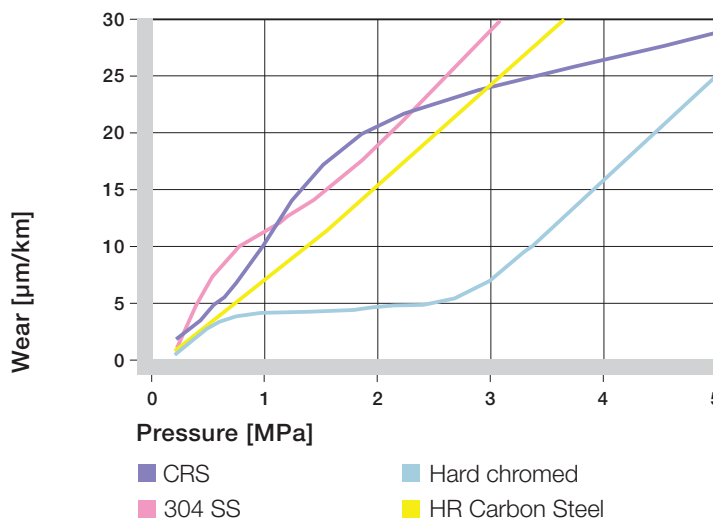
iglidur® A200

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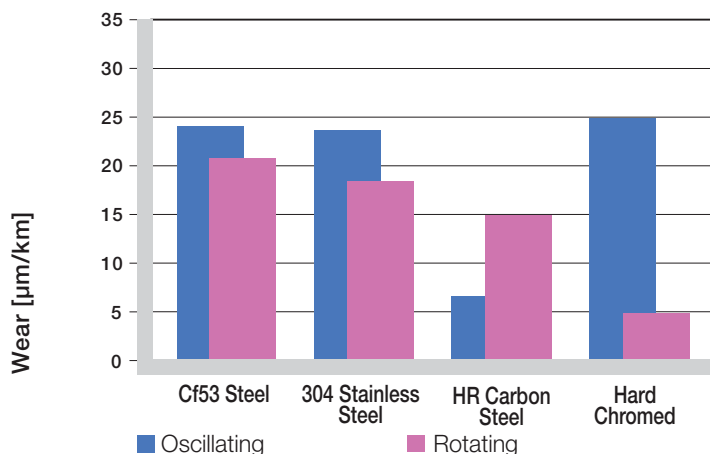




Shaft materials

Graph 8.7: Wear of iglidur® A200, rotating applications with different shaft materials,  $p = 0.75 \text{ MPa}$ ,  $v = 0.5 \text{ m/s}$ 

Graph 8.8: Wear of iglidur® A200 with different shaft materials in rotational applications

Graph 8.9: Wear with different shaft materials, oscillating and rotating movement,  $p = 2 \text{ MPa}$ 

## Shaft Material

Graphs 8.7 and 8.9 show results of testing different shaft materials with plain bearings made of iglidur® A200.

- Graphs 8.7 to 8.9
- ▶ Shaft Materials, pages 1.28

## Installation Tolerances

iglidur® A200 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, bore, the inner diameter is adjusted to meet our specified tolerances. Please adhere to the catalog specifications for housing bore and recommended shaft sizes. This will help to ensure an optimal performance of iglidur® A200 plain bearings.

- ▶ Testing Methods, page 1.35

## Chemical Resistance

iglidur® A200 plain bearings have strong resistance to chemicals. They are also resistant to most lubricants.

The moisture absorption of iglidur® A200 plain bearings is approximately 1.5% in standard atmosphere. The saturation limit submerged in water is 7.6%. This must be taken into account for these types of applications.

- Graph 8.10
- ▶ Chemical Table, pages 70.1

## Radiation Resistance

Plain bearings made of iglidur® A200 are resistant to radiation up to an intensity of  $1 \times 10^4$  Gy. Higher radiation levels attack the material and can cause the loss of essential mechanical properties.

## UV Resistance

iglidur® A200 plain bearings are resistant to UV radiation.

## Vacuum

In a vacuum environment, iglidur® A200 plain bearings have restricted use.

## Electrical Properties

iglidur® A200 plain bearings are electrically insulating.

Diameter d1 [mm]	Shaft h9 [mm]	iglidur® A200 D11 [mm]
up to 3	0–0,025	+0,020 +0,080
> 3 to 6	0–0,030	+0,030 +0,105
> 6 to 10	0–0,036	+0,040 +0,130
> 10 to 18	0–0,043	+0,050 +0,160
> 18 to 30	0–0,052	+0,065 +0,195
> 30 to 50	0–0,062	+0,080 +0,240

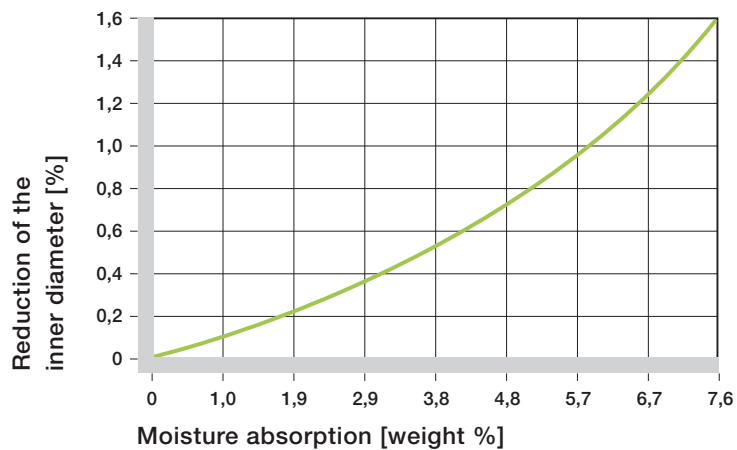
**Table 8.5: Essential tolerances for iglidur® A200 plain bearings after pressfit**

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

**Table 8.6: Chemical resistance of iglidur® A200 – detailed list, page 70.1 ff.**

+ resistant 0 conditionally resistant – not resistant

All data given at room temperature [20°C]



**Graph 8.10: Effect of moisture absorption on iglidur® A200 plain bearings**

### iglidur® A200

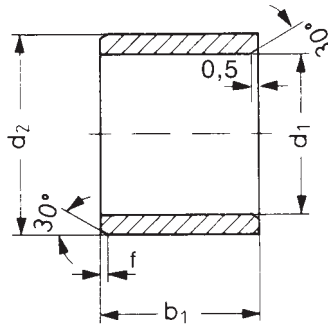
Specific volume resistance	> $10^{13} \Omega\text{cm}$
Surface resistance	> $10^{12} \Omega$

**Table 8.7: Electrical properties of iglidur® A200**

iglidur® A200

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Data in mm

Structure – part no.  
**A S M-0103-02**

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 DIN 1850  
and special dimensions

Part Number	d1	d1 Tolerance*	d2	b1 h13	Part Number	d1	d1 Tolerance*	d2	b1 h13
ASM-0103-02	1,0	+0,020 +0,080	3,0	2,0	ASM-0810-10	8,0	+0,040 +0,130	10,0	10,0
ASM-0104-02	1,5	+0,020 +0,080	4,0	2,0	ASM-0811-08	8,0	+0,040 +0,130	11,0	8,0
ASM-0205-02	2,0	+0,020 +0,080	5,0	2,0	ASM-0811-12	8,0	+0,040 +0,130	11,0	12,0
ASM-0205-03	2,0	+0,020 +0,080	5,0	3,0	ASM-0812-06	8,0	+0,040 +0,130	12,0	6,0
ASM-0206-03	2,5	+0,020 +0,080	6,0	3,0	ASM-0812-08	8,0	+0,040 +0,130	12,0	8,0
ASM-0305-03	3,0	+0,020 +0,080	5,0	3,0	ASM-0812-10	8,0	+0,040 +0,130	12,0	10,0
ASM-0305-04	3,0	+0,020 +0,080	5,0	4,0	ASM-0812-12	8,0	+0,040 +0,130	12,0	12,0
ASM-0306-03	3,0	+0,020 +0,080	6,0	3,0	ASM-0814-06	8,0	+0,040 +0,130	14,0	6,0
ASM-0306-04	3,0	+0,020 +0,080	6,0	4,0	ASM-0814-10	8,0	+0,040 +0,130	14,0	10,0
ASM-0407-03	4,0	+0,030 +0,105	7,0	3,0	ASM-0912-14	9,0	+0,040 +0,130	12,0	14,0
ASM-0407-04	4,0	+0,030 +0,105	7,0	4,0	ASM-1012-10	10,0	+0,040 +0,130	12,0	10,0
ASM-0407-06	4,0	+0,030 +0,105	7,0	6,0	ASM-1014-06	10,0	+0,040 +0,130	14,0	6,0
ASM-0408-06	4,0	+0,030 +0,105	8,0	6,0	ASM-1014-08	10,0	+0,040 +0,130	14,0	8,0
ASM-0508-04	5,0	+0,030 +0,105	8,0	4,0	ASM-1014-10	10,0	+0,040 +0,130	14,0	10,0
ASM-0508-05	5,0	+0,030 +0,105	8,0	5,0	ASM-1014-16	10,0	+0,040 +0,130	14,0	16,0
ASM-0508-08	5,0	+0,030 +0,105	8,0	8,0	ASM-1016-06	10,0	+0,040 +0,130	16,0	6,0
ASM-0509-05	5,0	+0,030 +0,105	9,0	5,0	ASM-1016-10	10,0	+0,040 +0,130	16,0	10,0
ASM-0509-08	5,0	+0,030 +0,105	9,0	8,0	ASM-1016-16	10,0	+0,040 +0,130	16,0	16,0
ASM-0608-10	6,0	+0,030 +0,105	8,0	10,0	ASM-1214-20	12,0	+0,050 +0,160	14,0	20,0
ASM-0609-06	6,0	+0,030 +0,105	9,0	6,0	ASM-1216-15	12,0	+0,050 +0,160	16,0	15,0
ASM-0610-04	6,0	+0,030 +0,105	10,0	4,0	ASM-1216-20	12,0	+0,050 +0,160	16,0	20,0
ASM-0610-06	6,0	+0,030 +0,105	10,0	6,0	ASM-1218-08	12,0	+0,050 +0,160	18,0	8,0
ASM-0610-10	6,0	+0,030 +0,105	10,0	10,0	ASM-1218-10	12,0	+0,050 +0,160	18,0	10,0
ASM-0612-06	6,0	+0,030 +0,105	12,0	6,0	ASM-1218-15	12,0	+0,050 +0,160	18,0	15,0
ASM-0612-10	6,0	+0,030 +0,105	12,0	10,0	ASM-1218-20	12,0	+0,050 +0,160	18,0	20,0
ASM-0710-05	7,0	+0,040 +0,130	10,0	5,0	ASM-1416-10	14,0	+0,050 +0,160	16,0	10,0
ASM-0710-08	7,0	+0,040 +0,130	10,0	8,0	ASM-1416-15	14,0	+0,050 +0,160	16,0	15,0
ASM-0810-06	8,0	+0,040 +0,130	10,0	6,0	ASM-1416-20	14,0	+0,050 +0,160	16,0	20,0
ASM-0810-08	8,0	+0,040 +0,130	10,0	8,0	ASM-1420-10	14,0	+0,050 +0,160	20,0	10,0

\*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
10–24	50–99	200–499	1000–2499	

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

No minimum order quantities, no surcharges.

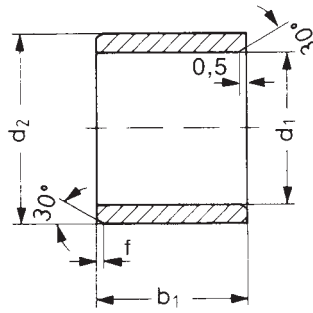


Type S

Type F

Type T





Data in mm

Structure – part no.  
**ASM-1420-15**



- b1
- d2
- d1
- Metric
- Type
- Material

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

Part Number	d1	d1 Tolerance*	d2	b1 h13
ASM-1420-15	14,0	+0,050 +0,160	20,0	15,0
ASM-1420-20	14,0	+0,050 +0,160	20,0	20,0
ASM-1517-10	15,0	+0,050 +0,160	17,0	10,0
ASM-1517-15	15,0	+0,050 +0,160	17,0	15,0
ASM-1521-10	15,0	+0,050 +0,160	21,0	10,0
ASM-1521-15	15,0	+0,050 +0,160	21,0	15,0
ASM-1521-20	15,0	+0,050 +0,160	21,0	20,0
ASM-1618-12	16,0	+0,050 +0,160	18,0	12,0
ASM-1618-20	16,0	+0,050 +0,160	18,0	20,0
ASM-1620-20	16,0	+0,050 +0,160	20,0	20,0
ASM-1620-25	16,0	+0,050 +0,160	20,0	25,0
ASM-1622-12	16,0	+0,050 +0,160	22,0	12,0
ASM-1622-15	16,0	+0,050 +0,160	22,0	15,0
ASM-1622-16	16,0	+0,050 +0,160	22,0	16,0
ASM-1622-20	16,0	+0,050 +0,160	22,0	20,0
ASM-1622-25	16,0	+0,050 +0,160	22,0	25,0
ASM-1824-12	18,0	+0,050 +0,160	24,0	12,0
ASM-1824-20	18,0	+0,050 +0,160	24,0	20,0
ASM-1824-30	18,0	+0,050 +0,160	24,0	30,0
ASM-2023-15	20,0	+0,065 +0,195	23,0	15,0
ASM-2023-20	20,0	+0,065 +0,195	23,0	20,0
ASM-2025-20	20,0	+0,065 +0,195	25,0	20,0
ASM-2025-15	20,0	+0,065 +0,195	25,0	15,0
ASM-2025-30	20,0	+0,065 +0,195	25,0	30,0
ASM-2026-15	20,0	+0,065 +0,195	26,0	15,0
ASM-2026-20	20,0	+0,065 +0,195	26,0	20,0
ASM-2026-30	20,0	+0,065 +0,195	26,0	30,0
ASM-2226-15	22,0	+0,065 +0,195	26,0	15,0
ASM-2228-10	22,0	+0,065 +0,195	28,0	10,0

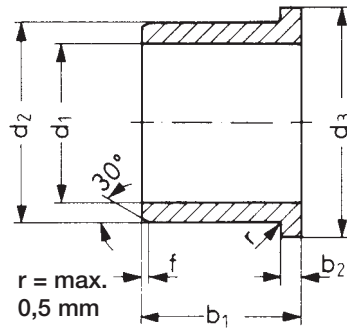
Part Number	d1	d1 Tolerance*	d2	b1 h13
ASM-2228-15	22,0	+0,065 +0,195	28,0	15,0
ASM-2228-20	22,0	+0,065 +0,195	28,0	20,0
ASM-2228-30	22,0	+0,065 +0,195	28,0	30,0
ASM-2430-15	24,0	+0,065 +0,195	30,0	15,0
ASM-2430-20	24,0	+0,065 +0,195	30,0	20,0
ASM-2430-30	24,0	+0,065 +0,195	30,0	30,0
ASM-2528-12	25,0	+0,065 +0,195	28,0	12,0
ASM-2528-20	25,0	+0,065 +0,195	28,0	20,0
ASM-2530-20	25,0	+0,065 +0,195	30,0	20,0
ASM-2530-30	25,0	+0,065 +0,195	30,0	30,0
ASM-2530-40	25,0	+0,065 +0,195	30,0	40,0
ASM-2532-20	25,0	+0,065 +0,195	32,0	20,0
ASM-2532-30	25,0	+0,065 +0,195	32,0	30,0
ASM-2532-40	25,0	+0,065 +0,195	32,0	40,0
ASM-2630-20	26,0	+0,065 +0,195	30,0	20,0
ASM-2632-30	26,0	+0,065 +0,195	32,0	30,0
ASM-2734-20	27,0	+0,065 +0,195	34,0	20,0
ASM-2734-30	27,0	+0,065 +0,195	34,0	30,0
ASM-2734-40	27,0	+0,065 +0,195	34,0	40,0
ASM-2833-20	28,0	+0,065 +0,195	33,0	20,0
ASM-2836-20	28,0	+0,065 +0,195	36,0	20,0
ASM-2836-30	28,0	+0,065 +0,195	36,0	30,0
ASM-2836-40	28,0	+0,065 +0,195	36,0	40,0
ASM-3038-20	30,0	+0,065 +0,195	38,0	20,0
ASM-3038-30	30,0	+0,065 +0,195	38,0	30,0
ASM-3038-40	30,0	+0,065 +0,195	38,0	40,0
ASM-3240-20	32,0	+0,080 +0,240	40,0	20,0
ASM-3240-30	32,0	+0,080 +0,240	40,0	30,0
ASM-3240-40	32,0	+0,080 +0,240	40,0	40,0

\*after pressfit. Testing methods ► page 1.35

iglidur® A200 – Type S

mm

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Data in mm

Structure – part no.  
**A F M-0103-02**

Chamfer in relation to the d1

d1 [mm]:    Ø 1–6    |    Ø 6–12    |    Ø 12–30    |    Ø &gt; 30

f [mm]:        0,3        |        0,5        |        0,8        |        1,2

Dimensions according to DIN 1850  
and special dimensions

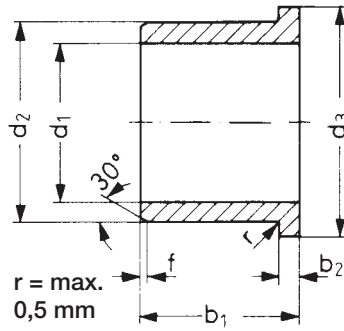
Part Number	d1	d1 Tolerance*	d2	d3		b2	
				d13	h13	-0,14	
AFM-0103-02	1,0	+0,020 +0,080	3,0	5,0	2,0	1,0	
AFM-0104-02	1,5	+0,020 +0,080	4,0	6,0	2,0	1,0	
AFM-0205-03	2,0	+0,020 +0,080	5,0	8,0	3,0	1,5	
AFM-0206-03	2,5	+0,020 +0,080	6,0	9,0	3,0	1,5	
AFM-0306-04	3,0	+0,020 +0,080	6,0	9,0	4,0	1,5	
AFM-0408-04	4,0	+0,030 +0,105	8,0	12,0	4,0	2,0	
AFM-0408-06	4,0	+0,030 +0,105	8,0	12,0	6,0	2,0	
AFM-0507-05	5,0	+0,030 +0,105	7,0	11,0	5,0	1,0	
AFM-0509-05	5,0	+0,030 +0,105	9,0	13,0	5,0	2,0	
AFM-0509-06	5,0	+0,030 +0,105	9,0	13,0	6,0	2,0	
AFM-0509-08	5,0	+0,030 +0,105	9,0	13,0	8,0	2,0	
AFM-0610-04	6,0	+0,030 +0,105	10,0	14,0	4,0	2,0	
AFM-0610-06	6,0	+0,030 +0,105	10,0	14,0	6,0	2,0	
AFM-0610-10	6,0	+0,030 +0,105	10,0	14,0	10,0	2,0	
AFM-0612-06	6,0	+0,030 +0,105	12,0	14,0	6,0	3,0	
AFM-0612-10	6,0	+0,030 +0,105	12,0	14,0	10,0	3,0	
AFM-0711-08	7,0	+0,040 +0,130	11,0	15,0	8,0	2,0	
AFM-0811-08	8,0	+0,040 +0,130	11,0	13,0	8,0	2,0	
AFM-0812-06	8,0	+0,040 +0,130	12,0	16,0	6,0	2,0	
AFM-0812-08	8,0	+0,040 +0,130	12,0	16,0	8,0	2,0	
AFM-0812-12	8,0	+0,040 +0,130	12,0	16,0	12,0	2,0	
AFM-0812-22	8,0	+0,040 +0,130	12,0	16,0	22,0	2,0	
AFM-0814-06	8,0	+0,040 +0,130	14,0	18,0	6,0	3,0	
AFM-0814-10	8,0	+0,040 +0,130	14,0	18,0	10,0	3,0	
AFM-0914-06	9,0	+0,040 +0,130	14,0	19,0	6,0	2,0	
AFM-0914-10	9,0	+0,040 +0,130	14,0	19,0	10,0	2,0	
AFM-0914-14	9,0	+0,040 +0,130	14,0	19,0	14,0	2,0	
AFM-1016-06	10,0	+0,040 +0,130	16,0	22,0	6,0	3,0	
AFM-1016-08	10,0	+0,040 +0,130	16,0	22,0	8,0	3,0	
AFM-1016-10	10,0	+0,040 +0,130	16,0	22,0	10,0	3,0	
AFM-1016-16	10,0	+0,040 +0,130	16,0	22,0	16,0	3,0	
AFM-101620-10	10,0	+0,040 +0,130	16,0	20,0	10,0	3,0	
AFM-1214-12	12,0	+0,050 +0,160	14,0	20,0	12,0	3,0	
AFM-1218-08	12,0	+0,050 +0,160	18,0	24,0	8,0	1,0	
AFM-1218-10	12,0	+0,050 +0,160	18,0	22,0	10,0	3,0	
AFM-1218-12	12,0	+0,050 +0,160	18,0	24,0	12,0	3,0	
AFM-1218-15	12,0	+0,050 +0,160	18,0	22,0	15,0	3,0	
AFM-1218-20	12,0	+0,050 +0,160	18,0	22,0	20,0	3,0	
AFM-1420-10	14,0	+0,050 +0,160	20,0	25,0	10,0	3,0	

\*after pressfit. Testing methods ► page 1.35

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mm

iglidur® A200 – Type F



Data in mm

Structure – part no.  
A F M-1420-15



- b1
- d2
- d1
- Metric
- Type
- Material

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

Part Number	d1	d1 Tolerance*	d2	d3		b2
				d13	h13	
AFM-1420-15	14,0	+0,050 +0,160	20,0	25,0	15,0	3,0
AFM-1420-20	14,0	+0,050 +0,160	20,0	25,0	20,0	3,0
AFM-1521-10	15,0	+0,050 +0,160	21,0	27,0	10,0	3,0
AFM-1521-15	15,0	+0,050 +0,160	21,0	27,0	15,0	3,0
AFM-1521-20	15,0	+0,050 +0,160	21,0	27,0	20,0	3,0
AFM-1521-25	15,0	+0,050 +0,160	21,0	27,0	25,0	3,0
AFM-1622-12	16,0	+0,050 +0,160	22,0	28,0	12,0	3,0
AFM-1622-15	16,0	+0,050 +0,160	22,0	28,0	15,0	3,0
AFM-1622-20	16,0	+0,050 +0,160	22,0	28,0	20,0	3,0
AFM-1622-25	16,0	+0,050 +0,160	22,0	28,0	25,0	3,0
AFM-1824-12	18,0	+0,050 +0,160	24,0	30,0	12,0	3,0
AFM-1824-18	18,0	+0,050 +0,160	24,0	30,0	18,0	3,0
AFM-1824-20	18,0	+0,050 +0,160	24,0	30,0	20,0	3,0
AFM-1824-30	18,0	+0,050 +0,160	24,0	30,0	30,0	3,0
AFM-2026-15	20,0	+0,065 +0,195	26,0	32,0	15,0	3,0
AFM-2026-20	20,0	+0,065 +0,195	26,0	32,0	20,0	3,0
AFM-2026-30	20,0	+0,065 +0,195	26,0	32,0	30,0	3,0
AFM-2228-15	22,0	+0,065 +0,195	28,0	34,0	15,0	3,0
AFM-2228-20	22,0	+0,065 +0,195	28,0	34,0	20,0	3,0
AFM-2228-30	22,0	+0,065 +0,195	28,0	34,0	30,0	3,0
AFM-2430-15	24,0	+0,065 +0,195	30,0	36,0	15,0	3,0
AFM-2430-20	24,0	+0,065 +0,195	30,0	36,0	20,0	3,0
AFM-2430-30	24,0	+0,065 +0,195	30,0	36,0	30,0	3,0
AFM-2532-20	25,0	+0,065 +0,195	32,0	38,0	20,0	4,0
AFM-2532-30	25,0	+0,065 +0,195	32,0	38,0	30,0	4,0
AFM-2532-40	25,0	+0,065 +0,195	32,0	38,0	40,0	4,0
AFM-2734-20	27,0	+0,065 +0,195	34,0	40,0	20,0	4,0
AFM-2734-30	27,0	+0,065 +0,195	34,0	40,0	30,0	4,0
AFM-2734-40	27,0	+0,065 +0,195	34,0	40,0	40,0	4,0
AFM-2836-20	28,0	+0,065 +0,195	36,0	42,0	20,0	4,0
AFM-2836-30	28,0	+0,065 +0,195	36,0	42,0	30,0	4,0
AFM-2836-40	28,0	+0,065 +0,195	36,0	42,0	40,0	4,0
AFM-3038-20	30,0	+0,065 +0,195	38,0	44,0	20,0	4,0
AFM-3038-30	30,0	+0,065 +0,195	38,0	44,0	30,0	4,0
AFM-3038-40	30,0	+0,065 +0,195	38,0	44,0	40,0	4,0
AFM-3240-20	32,0	+0,080 +0,240	40,0	46,0	20,0	4,0
AFM-3240-30	32,0	+0,080 +0,240	40,0	46,0	30,0	4,0
AFM-3240-40	32,0	+0,080 +0,240	40,0	46,0	40,0	4,0

\*after pressfit. Testing methods ► page 1.35

iglidur® A200 – Type F

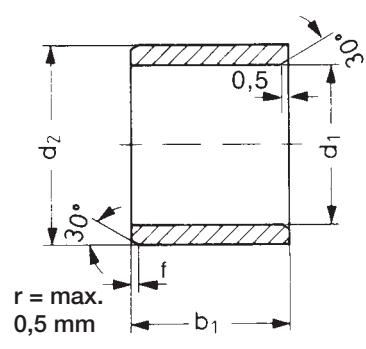
mm

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Navigation icons: Home (+), Information (i), Back (←), Forward (→), and Unit Selection (mm, Inch).

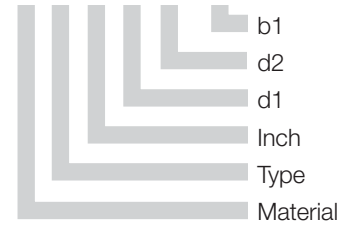
inch

iglidur® A200 – Type S



Data in inches

Structure – part no.  
**A S I -0204-04**



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

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Part Number	d1	d2	b1	d1*		Housing Bore		Shaft Size	
				max.	min.	max.	min.	max.	min.
ASI-0204-04	1/8	1/4	1/4	,1280	,1262	,2515	,2510	,1250	,1241
ASI-0305-04	3/16	5/16	1/4	,1905	,1887	,3140	,3135	,1875	,1866
ASI-0406-04	1/4	3/8	1/4	,2539	,2516	,3765	,3760	,2500	,2491
ASI-0406-06	1/4	3/8	3/8	,2539	,2516	,3765	,3760	,2500	,2491
ASI-0406-08	1/4	3/8	1/2	,2539	,2516	,3765	,3760	,2500	,2491
ASI-0507-08	5/16	15/32	1/2	,3164	,3141	,4390	,4385	,3125	,3116
ASI-0608-04	3/8	1/2	1/4	,3789	,3766	,5015	,5010	,3750	,3741
ASI-0608-08	3/8	1/2	1/2	,3789	,3766	,5015	,5010	,3750	,3741
ASI-0810-08	1/2	5/8	1/2	,5047	,5020	,6260	,6250	,5000	,4990
ASI-0810-12	1/2	5/8	3/4	,5047	,5020	,6260	,6250	,5000	,4990
ASI-1013-05	5/8	13/16	5/16	,6297	,6270	,8135	,8125	,6250	,6240
ASI-1013-12	5/8	13/16	3/4	,6297	,6270	,8135	,8125	,6250	,6240
ASI-1216-12	3/4	1	3/4	,7559	,7525	1,0010	1,0000	,7500	,7490
ASI-1216-16	3/4	1	1	,7559	,7525	1,0010	1,0000	,7500	,7490
ASI-1418-16	7/8	1 1/8	1	,8809	,8775	1,1260	1,1250	,8750	,8740
ASI-1620-12	1	1 9/32	3/4	1,0059	1,0025	1,2510	1,2500	1,0000	,9990
ASI-1620-16	1	1 9/32	1	1,0059	1,0025	1,2510	1,2500	1,0000	,9990
ASI-2024-16	1 1/4	1 17/32	1	1,2600	1,2531	1,5005	1,4995	1,2500	1,2490
ASI-2428-24	1 1/2	1 3/4	1 1/2	1,5100	1,5032	1,7505	1,7495	1,5000	1,4990

\*after pressfit. Testing methods ► page 1.35

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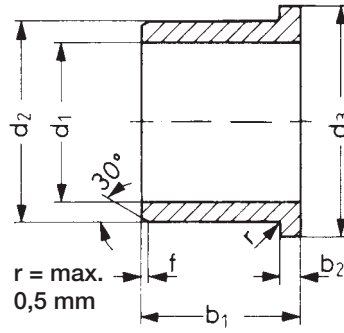
### Order example

Our price breaks are defined by the order quantity.

1– 9	25–49	100–199	500– 999	2500–4999
10–24	50–99	200–499	1000–2499	



For the current prices please visit the igus®-Homepage [www.igus.de/en](http://www.igus.de/en)  
No minimum order quantities, no surcharges.



Data in inches

Structure - part no.  
A F I -0204-04



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

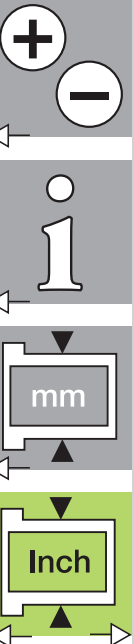
Part Number	d1	d2	b1	d3	b2	d1*		Housing Bore		Shaft Size	
						max.	min.	max.	min.	max.	min.
AFI-0204-04	1/8	1/4	1/4	,360	,047	,1280	,1262	,2515	,2510	,1250	,1241
AFI-0305-04	3/16	5/16	1/4	,370	,047	,1905	,1887	,3140	,3135	,1875	,1866
AFI-0406-04	1/4	3/8	1/4	,560	,047	,2539	,2516	,3765	,3760	,2500	,2491
AFI-0406-06	1/4	3/8	3/8	,560	,047	,2539	,2516	,3765	,3760	,2500	,2491
AFI-0507-08	5/16	15/32	1/2	,560	,062	,3164	,3141	,4390	,4385	,3125	,3116
AFI-0608-04	3/8	1/2	1/4	,625	,062	,3164	,3141	,4390	,4385	,3125	,3116
AFI-0608-08	3/8	1/2	1/2	,625	,062	,3789	,3766	,5015	,5010	,3750	,3741
AFI-0810-08	1/2	5/8	1/2	,875	,062	,5047	,5020	,6257	,6250	,5000	,4983
AFI-0810-12	1/2	5/8	3/4	,875	,062	,5047	,5020	,6257	,6250	,5000	,4983
AFI-1013-16	5/8	13/16	1	1,063	,156	,6297	,6270	,8135	,8125	,6250	,6240
AFI-1216-12	3/4	1	3/4	1,250	,156	,7559	,7525	1,0010	1,0000	,7500	,7490
AFI-1216-16	3/4	1	1	1,250	,156	,7559	,7525	1,0010	1,0000	,7500	,7490
AFI-1418-24	7/8	1 1/8	1 1/2	1,375	,156	,8809	,8775	1,1260	1,1250	,8750	,8740
AFI-1620-16	1	1 9/32	1	1,500	,188	1,0059	1,0025	1,2510	1,2500	1,0000	,9990
AFI-1620-24	1	1 9/32	1 1/2	1,500	,188	1,0059	1,0025	1,2510	1,2500	1,0000	,9990
AFI-2024-16	1 1/4	1 17/32	1	1,750	,200	1,2600	1,2531	1,5005	1,4995	1,2500	1,2490
AFI-2024-24	1 1/4	1 17/32	1 1/2	1,750	,200	1,2600	1,2531	1,5005	1,4995	1,2500	1,2490
AFI-2428-16	1 1/2	1 3/4	1	2,000	,125	1,5100	1,5032	1,7505	1,7495	1,5000	1,4990
AFI-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
AFI-2832-16	1 3/4	2	1	2,250	,125	1,7560	1,7532	2,0005	1,9995	1,7500	1,7490

\*after pressfit. Testing methods ► page 1.35

iglidur® A200 – Type F

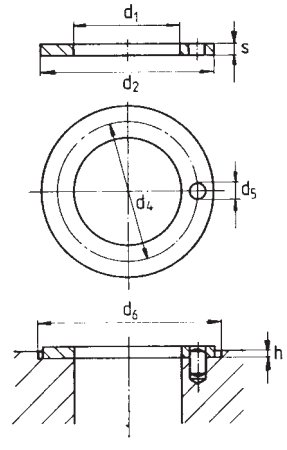
inch

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inch

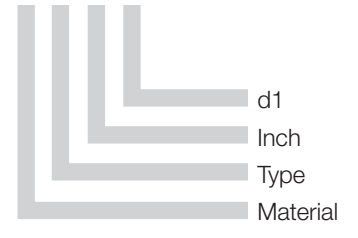
iglidur® A200 – Type T



Data in inches

Structure – part no.

**A T I -04**



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Part Number	d1 (nominal)	d1*		d2		s
		max.	min.	max.	min.	
ATI-04	1/4	,2610	,2551	,6201	,6094	,0902
ATI-06	3/8	,3943	,3813	,7500	,7370	,0902
ATI-08	1/2	,5102	,5031	,8201	,8071	,0902
ATI-12	3/4	,7673	,7598	1,0654	1,0500	,0941
ATI-16	1	1,0268	1,0197	1,5000	1,4843	,1252

\*after pressfit. Testing methods ► page 1.35