

The classic endurance runner up to 30MPa Excellent wear resistance on (virtually) all shafts **iglidur® W300**



When to use it?

- When especially high service life is necessary
- When low coefficient of dynamic friction and high wear resistance are required
- For use on 304 stainless steel shafts
- For harsh environments and rough shafts
- Dirt-resistant



When not to use?

- For high loads starting at 50MPa
iglidur® Q
- When continuous operating temperatures are higher than +90°C
iglidur® H, iglidur® X
- For very wet environments
iglidur® P
- When a cost-effective plain bearing is required
iglidur® G

Bearing technology | Plain bearing | iglidur® W300



Ø
2.0 –
120.0mm



Also available
as:



Bar stock,
round bar
Page 674

The classic endurance runner up to 30MPa Excellent wear resistance on (virtually) all shafts

iglidur® W300 gives excellent wear resistance, even in harsh environments or when used with rough shafts. Of all iglidur® materials, iglidur® W300 is the most resistant to these conditions.

- Over 400 sizes available from stock
- Very long service life
- Low coefficient of friction
- Very wear-resistant
- Suitable for applications with soft shafts
- Lubrication-free
- Maintenance-free



Bar stock,
plate
Page 683



tribo-tape liner
Page 691

Typical application areas

- Automation
- Printing industry
- Woodworking
- Mechatronics
- Test engineering and quality assurance



Piston rings
Page 584



Two hole
flange
bearings
Page 603



Moulded
special parts
Page 624



igubal®
spherical balls
Page 845

Descriptive technical specifications			
Wear resistance at +23°C	-	<div style="width: 100%; height: 10px; background-color: yellow;"></div>	+
Wear resistance at +90°C	-	<div style="width: 100%; height: 10px; background-color: yellow;"></div>	+
Wear resistance at +150°C	-	<div style="width: 25%; height: 10px; background-color: yellow;"></div>	+
Low coefficient of friction	-	<div style="width: 100%; height: 10px; background-color: yellow;"></div>	+
Low moisture absorption	-	<div style="width: 25%; height: 10px; background-color: yellow;"></div>	+
Wear resistance under water	-	<div style="width: 25%; height: 10px; background-color: yellow;"></div>	+
High media resistance	-	<div style="width: 25%; height: 10px; background-color: yellow;"></div>	+
Resistant to edge pressures	-	<div style="width: 100%; height: 10px; background-color: yellow;"></div>	+
Suitable for shock and impact loads	-	<div style="width: 100%; height: 10px; background-color: yellow;"></div>	+
Resistant to dirt	-	<div style="width: 100%; height: 10px; background-color: yellow;"></div>	+

Online product finder
www.igus.eu/iglidur-finder

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

172 3D CAD, finder and service life calculation ... www.igus.eu/W300



Technical data

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

Table 01: Material properties

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

Moisture absorption

Under standard climatic conditions, the moisture absorption of iglidur® W300 plain bearings is approximately 1.3% weight. The saturation limit in water is 6.5% weight. This must be taken into account for these types of applications.

Vacuum

In vacuum, any present moisture is released as vapour. The use in vacuum is only possible to a limited extent.

Radiation resistance

Plain bearings made from iglidur® W300 are resistant up to a radiation intensity of 3 · 10²Gy.

Resistance to weathering

iglidur® W300 plain bearings have limited resistance to weathering. The material properties are affected. Discoloration occurs. Practical tests under real application conditions are recommended.

Mechanical properties

With increasing temperatures, the compressive strength of iglidur® W300 plain bearings decreases. Diagram 02 shows this inverse relationship. The maximum recommended surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this.

iglidur® W300 presents a very high compressive strength in spite of its high elasticity. Diagram 03 shows the elastic deformation of iglidur® W300 at radial loads. At the maximum recommended surface pressure of 60MPa the deformation is less than 3%.

Surface pressure, page 41



-40°C up to
+90°C



60MPa



Lubrication-free made easy ... from stock ... no minimum order quantity 173

Permissible surface speeds

Even at higher surface speeds, the coefficient of friction of iglidur® W300 plain bearings remains the same. In relation to other materials, somewhat higher surface speeds can be attained, for example, up to 1.5m/s rotating and up to 6.0m/s linear. The wear remains low when used for long periods at high speeds, due to exceptional wear resistance. Relatively high speeds can be obtained with iglidur® W300 bearings on hardened shafts with the recommended surface finish.

Surface speed, page 44

Temperature

iglidur® W300 plain bearings retain their exceptional wear resistance even up to the highest permissible application temperatures and at the same time resist becoming brittle at low temperatures. For temperatures over +60°C an additional securing is required.

Application temperatures, page 49

Additional securing, page 49

Friction and wear

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

Coefficient of friction and surfaces, page 47

Wear resistance, page 50

Shaft materials

The friction and wear are also dependent, to a large degree, on the shaft material. Shafts that are too smooth, increase both the coefficient of friction and the wear of the bearing. Smooth shafts have the danger of stick slip. Squeaking as an effect of stick slip is usually the result of shafts that are too smooth. Shaft surface finish of 0.4 – 0.5 μ m have proven to be the best. For iglidur® W300, the wear resistance is still excellent with this surface finish as the friction adopts the minimum value. Diagram 06 shows results of testing different shafts. Hardened shafts are preferred for applications for higher loads. If the shaft material you plan on using is not shown in these test results, please contact us.

Shaft materials, page 52

Installation tolerances

iglidur® W300 plain bearings are standard bearings for shafts with h tolerance (recommended minimum h9). The bearings are designed for press-fit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, in standard cases the inner diameter automatically adjusts to the E10 tolerances. For particular dimensions the tolerance differs depending on the wall thickness (please see product range table).

Testing methods, page 57

Chemicals	Resistance
Alcohols	+ up to 0
Diluted acids	0 up to –
Diluted alkalines	+
Fuels	+
Greases, oils without additives	+
Hydrocarbons	+
Strong acids	–
Strong alkalines	0

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

Table 02: Chemical resistance

Chemical table, page 1636

	Rotating	Oscillating	linear
long-term m/s	1.0	0.7	4.0
short-term m/s	1.5	1.8	6.0

Table 03: Maximum surface speeds

	Dry	Greases	Oil	Water
Coefficient of friction μ	0.08 – 0.23	0.09	0.04	0.04

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

Ø d1 [mm]	Housing		Plain bearing		Shaft	
	H7 [mm]	E10 [mm]	E10 [mm]	h9 [mm]	h9 [mm]	h9 [mm]
0 – 3	+0.000	+0.010	+0.014	+0.054	-0.025	+0.000
> 3 – 6	+0.000	+0.012	+0.020	+0.068	-0.030	+0.000
> 6 – 10	+0.000	+0.015	+0.025	+0.083	-0.036	+0.000
> 10 – 18	+0.000	+0.018	+0.032	+0.102	-0.043	+0.000
> 18 – 30	+0.000	+0.021	+0.040	+0.124	-0.052	+0.000
> 30 – 50	+0.000	+0.025	+0.050	+0.150	-0.062	+0.000
> 50 – 80	+0.000	+0.030	+0.060	+0.180	-0.074	+0.000
> 80 – 120	+0.000	+0.035	+0.072	+0.212	-0.087	+0.000
> 120 – 180	+0.000	+0.040	+0.085	+0.245	-0.100	+0.000

Table 05: Important tolerances for plain bearings according to ISO 3547-1 after press-fit

Technical data

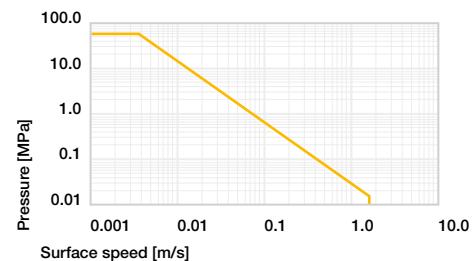


Diagram 01: Permissible pv values for iglidur® W300 plain bearings with a wall thickness of 1mm, dry operation against a steel shaft, at +20°C, mounted in a steel housing

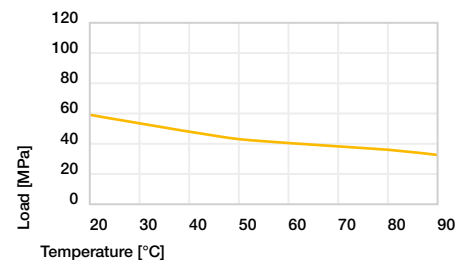


Diagram 02: Maximum recommended surface pressure as a function of temperature (60MPa at +20°C)

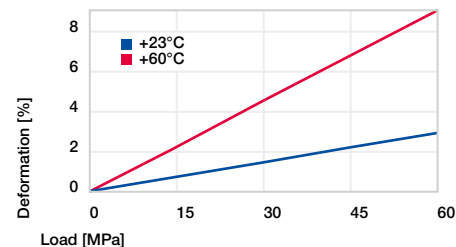


Diagram 03: Deformation under pressure and temperature

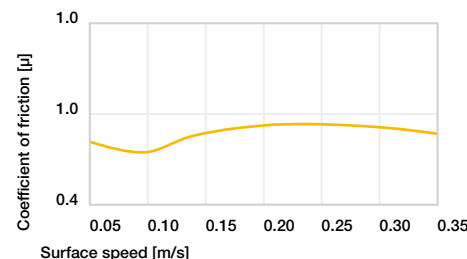


Diagram 04: Coefficient of friction as a function of the surface speed, p = 0.75MPa

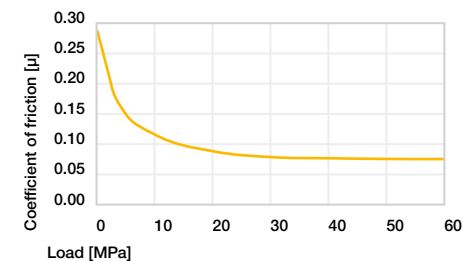


Diagram 05: Coefficient of friction as a function of the load, v = 0.01m/s

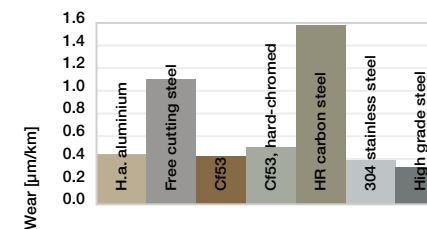


Diagram 06: Wear, rotating with different shaft materials, pressure, p = 1MPa, v = 0.3m/s

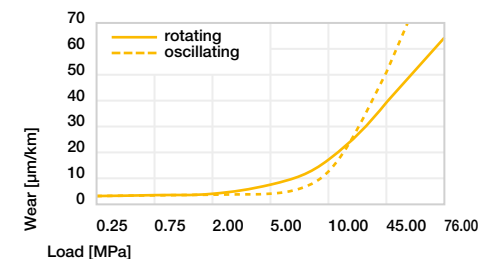
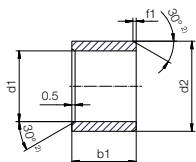


Diagram 07: Wear for oscillating and rotating applications with shaft material Cf53 hardened and ground steel, as a function of the load

Sleeve bearing (form S)



²⁾ Thickness < 0.6mm: Chamfer = 20°

Chamfer in relation to d1

d1 [mm]	Ø 1-6	Ø 6-12	Ø 12-30	Ø > 30
f1 [mm]	0.3	0.5	0.8	1.2

i Dimensions according to ISO 3547-1 and special dimensions

i Order example: **WSM-0203-03** – no minimum order quantity.
W300 iglidur® material **S** Sleeve bearing **M** Metric **02** Inner Ø d1 **03** Outer Ø d2 **03** Total length b1

d1	d1	d2	b1	Part No.
[mm]	Tolerance ³⁾	[mm]	h13 [mm]	
2.0		3.5	3.0	WSM-0203-03
2.0		4.0	1.8	WSM-0204-018
2.5	+0.014	4.0	3.0	WSM-0204-03
3.0	+0.054	4.5	3.0	WSM-0304-03
3.0		4.5	5.0	WSM-0304-05
3.0		4.5	6.0	WSM-0304-06
4.0		5.5	4.0	WSM-0405-04
4.0		5.5	6.0	WSM-0405-06
4.0	+0.020	5.5	8.0	WSM-0405-08
4.0	+0.068	5.5	10.0	WSM-0405-10
5.0		7.0	5.0	WSM-0507-05
5.0		7.0	8.0	WSM-0507-08
5.0		7.0	10.0	WSM-0507-10
6.0	+0.010	7.0	14.0	WSM-0607-14
6.0	+0.058			
6.0		8.0	6.0	WSM-0608-06
6.0		8.0	8.0	WSM-0608-08
6.0	+0.020	8.0	9.5	WSM-0608-09
6.0	+0.068	8.0	10.0	WSM-0608-10
6.0		8.0	11.8	WSM-0608-11
6.0		8.0	13.8	WSM-0608-13
7.0		9.0	9.0	WSM-0709-09
7.0		9.0	12.0	WSM-0709-12
7.0		9.0	12.5	WSM-0709-125
8.0	+0.025	10.0	6.0	WSM-0810-06
8.0	+0.083	10.0	8.0	WSM-0810-08
8.0		10.0	10.0	WSM-0810-10
8.0		10.0	12.0	WSM-0810-12
8.0		10.0	13.8	WSM-0810-13

d1	d1	d2	b1	Part No.
[mm]	Tolerance ³⁾	[mm]	h13 [mm]	
8.0		10.0	15.0	WSM-0810-15
8.0		10.0	16.0	WSM-0810-16
8.0		10.0	20.0	WSM-0810-20
8.0		10.0	21.0	WSM-0810-21
9.0		11.0	6.0	WSM-0911-06
10.0		12.0	4.0	WSM-1012-04
10.0	+0.025	12.0	6.0	WSM-1012-06
10.0	+0.083	12.0	8.0	WSM-1012-08
10.0		12.0	9.0	WSM-1012-09
10.0		12.0	10.0	WSM-1012-10
10.0		12.0	12.0	WSM-1012-12
10.0		12.0	15.0	WSM-1012-15
10.0		12.0	17.0	WSM-1012-17
10.0		12.0	20.0	WSM-1012-20
10.0		12.0	25.5	WSM-1012-25.5
11.0		13.0	8.0	WSM-1113-08
12.0		14.0	4.0	WSM-1214-04
12.0		14.0	5.0	WSM-1214-05
12.0		14.0	6.0	WSM-1214-06
12.0		14.0	8.0	WSM-1214-08
12.0		14.0	10.0	WSM-1214-10
12.0	+0.032	14.0	12.0	WSM-1214-12
12.0	+0.102	14.0	15.0	WSM-1214-15
12.0		14.0	20.0	WSM-1214-20
12.0		14.0	25.0	WSM-1214-25
13.0		15.0	7.0	WSM-1315-07
13.0		15.0	10.0	WSM-1315-10
13.0		15.0	15.0	WSM-1315-15
13.0		15.0	20.0	WSM-1315-20

³⁾ After press-fit. Testing methods, page 57

Product range

d1	d1	d2	b1	Part No.
[mm]	Tolerance ³⁾	[mm]	h13 [mm]	
14.0		16.0	7.2	WSM-1416-07
14.0		16.0	10.0	WSM-1416-10
14.0		16.0	15.0	WSM-1416-15
14.0		16.0	20.0	WSM-1416-20
14.0		16.0	25.0	WSM-1416-25
14.0		16.0	33.0	WSM-1416-33
15.0		17.0	10.0	WSM-1517-10
15.0		17.0	15.0	WSM-1517-15
15.0		17.0	20.0	WSM-1517-20
15.0		17.0	25.0	WSM-1517-25
16.0		18.0	7.0	WSM-1618-07
16.0		18.0	8.0	WSM-1618-08
16.0	+0.032	18.0	11.5	WSM-1618-11
16.0	+0.102	18.0	12.0	WSM-1618-12
16.0		18.0	15.0	WSM-1618-15
16.0		18.0	20.0	WSM-1618-20
16.0		18.0	25.0	WSM-1618-25
16.0		18.0	30.0	WSM-1618-30
16.0		18.0	35.0	WSM-1618-35
16.0		18.0	45.0	WSM-1618-45
18.0		20.0	12.0	WSM-1820-12
18.0		20.0	15.0	WSM-1820-15
18.0		20.0	20.0	WSM-1820-20
18.0		20.0	25.0	WSM-1820-25
18.0		20.0	33.0	WSM-1820-33
18.0		20.0	35.0	WSM-1820-35
19.0		22.0	28.0	WSM-1922-28
20.0		22.0	11.5	WSM-2022-11
20.0		22.0	12.0	WSM-2022-12
20.0		22.0	15.0	WSM-2022-15
20.0		22.0	20.0	WSM-2022-20
20.0		22.0	30.0	WSM-2022-30
20.0		23.0	8.0	WSM-2023-08
20.0		23.0	10.0	WSM-2023-10
20.0		23.0	12.0	WSM-2023-12
20.0		23.0	15.0	WSM-2023-15
20.0	+0.040	23.0	20.0	WSM-2023-20
20.0	+0.124	23.0	23.0	WSM-2023-23
20.0		23.0	25.0	WSM-2023-25
20.0		23.0	30.0	WSM-2023-30
22.0		24.0	15.0	WSM-2224-15
22.0		24.0	20.0	WSM-2224-20
22.0		24.0	30.0	WSM-2224-30
22.0		24.0	35.0	WSM-2224-35
22.0		24.0	45.0	WSM-2224-45
22.0		25.0	15.0	WSM-2225-15
22.0		25.0	20.0	WSM-2225-20
22.0		25.0	25.0	WSM-2225-25
22.0		25.0	30.0	WSM-2225-30
24.0		25.0	15.0	WSM-2427-15
24.0		27.0	20.0	WSM-2427-20
24.0		27.0	25.0	WSM-2427-25
24.0		27.0	30.0	WSM-2427-30
24.0		28.0	12.0	WSM-2528-12
24.0		28.0	14.0	WSM-2528-14
24.0		28.0	15.0	WSM-2528-15
24.0		28.0	20.0	WSM-2528-20
24.0		28.0	25.0	WSM-2528-25
24.0		28.0	30.0	WSM-2528-30
24.0		28.0	50.0	WSM-2528-50
26.0		30.0	16.0	WSM-2630-16
26.0		30.0	25.0	WSM-2630-25
26.0	+0.040	30.0	10.0	WSM-2830-10
26.0	+0.124	31.0	10.0	WSM-2831-10
28.0		32.0	20.0	WSM-2832-20
28.0		32.0	25.0	WSM-2832-25
28.0		32.0	30.0	WSM-2832-30
28.0		34.0	16.0	WSM-3034-16
28.0		34.0	20.0	WSM-3034-20
28.0		34.0	24.0	WSM-3034-24
28.0		34.0	25.0	WSM-3034-25
28.0		34.0	30.0	WSM-3034-30
28.0		34.0	36.0	WSM-3034-36
28.0		34.0	38.0	WSM-3034-38
28.0		34.0	40.0	WSM-3034-40
28.0		34.0	45.0	WSM-3034-45
28.0		34.0	47.0	WSM-3034-47
30.0		36.0	20.0	WSM-3236-20
30.0		36.0	25.0	WSM-3236-25
30.0		36.0	30.0	WSM-3236-30
30.0		36.0	40.0	WSM-3236-40
30.0		39.0	20.0	WSM-3539-20
30.0		39.0	30.0	WSM-3539-30
30.0		39.0	40.0	WSM-3539-40
30.0		39.0	50.0	WSM-3539-50
30.0	+0.050	40.0	7.0	WSM-3540-07
30.0	+0.150	40.0	20.0	WSM-4044-20
30.0		40.0	30.0	WSM-4044-30
30.0		40.0	40.0	WSM-4044-40
30.0		40.0	40.0	WSM-4044-40
30.0		40.0	44.0	WSM-4044-44
30.0		40.0	50.0	WSM-4044-50
30.0		45.0	20.0	WSM-4550-20
30.0		45.0	30.0	WSM-4550-30
30.0		45.0	40.0	WSM-4550-40
30.0		45.0	50.0	WSM-4550-50
30.0		50.0	20.0	WSM-5055-20
30.0		50.0	30.0	WSM-5055-30


³⁾ After press-fit. Testing methods, page 57

Bearing technology | Plain bearing | iglidur® W300


d1	d1 Tolerance ³⁾	d2	b1 h13	Part No.
[mm]	[mm]	[mm]	[mm]	
50.0		55.0	40.0	WSM-5055-40
50.0	+0.050	55.0	50.0	WSM-5055-50
50.0	+0.150	55.0	55.0	WSM-5055-55
50.0		55.0	60.0	WSM-5055-60
55.0		60.0	40.0	WSM-5560-40
55.0	+0.060	60.0	60.0	WSM-5560-60
60.0	+0.180	65.0	30.0	WSM-6065-30
60.0		65.0	60.0	WSM-6065-60

d1	d1 Tolerance ³⁾	d2	b1 h13	Part No.
[mm]	[mm]	[mm]	[mm]	
65.0		70.0	60.0	WSM-6570-60
70.0		75.0	60.0	WSM-7075-60
75.0	+0.060	80.0	100.0	WSM-7580-100
80.0	+0.180	85.0	100.0	WSM-8085-100
80.0		85.0	20.0	WSM-8085-20
90.0	+0.072	95.0	100.0	WSM-9095-100
100.0	+0.212	105.0	100.0	WSM-100105-100

³⁾ After press-fit. *Testing methods, page 57*

 **Available from stock**
Detailed information about delivery time online.
www.igus.eu/24

 **Online ordering**
Including delivery times, prices, online tools
www.igus.eu/W300

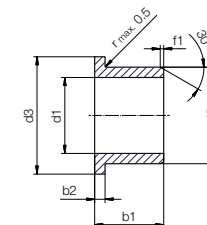
 **Ordering note**
Our prices are scaled according to order quantities, current prices can be found online.

Discount scaling		
1 – 9	50 – 99	500 – 999
10 – 24	100 – 199	1,000 – 2,499
25 – 49	200 – 499	2,500 – 4,999

No minimum order value.
No low-quantity surcharges.
Free shipping within Germany for orders above €150.

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Flange bearing (form F)



³⁾ Thickness < 0.6mm: Chamfer = 20°

Chamfer in relation to d1

d1 [mm]	Ø 1–6	Ø 6–12	Ø 12–30	Ø > 30
f1 [mm]	0.3	0.5	0.8	1.2

 Dimensions according to ISO 3547-1 and special dimensions

 **Order example: WFM-0204-03** – no minimum order quantity.
W300 iglidur® material F Flange bearing M Metric 02 Inner Ø d1 04 Outer Ø d2 03 Total length b1

d1	d1 Tolerance ³⁾	d2	d3	b1 h13	b2 h13	Part No.
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
2.5		4.0	6.5	3.0	0.75	WFM-0204-03
3.0	+0.014	4.5	7.5	3.0	0.75	WFM-0304-03
3.0	+0.054	4.5	7.5	5.0	0.75	WFM-0304-05
4.0		5.5	9.5	3.0	0.75	WFM-0405-03
4.0	+0.020	5.5	9.5	4.0	0.75	WFM-0405-04
4.0	+0.068	5.5	9.5	6.0	0.75	WFM-0405-06
5.0	+0.010	6.0	10.0	8.0	0.50	WFM-0506-08
5.0	+0.040					
5.0		7.0	11.0	4.0	1.00	WFM-0507-04
5.0		7.0	11.0	5.0	1.00	WFM-0507-05
6.0		8.0	12.0	4.0	1.00	WFM-0608-04
6.0	+0.020	8.0	12.0	6.0	1.00	WFM-0608-06
6.0	+0.068	8.0	12.0	8.0	1.00	WFM-0608-08
6.0		8.0	12.0	10.0	1.00	WFM-0608-10
6.0		8.0	12.0	15.0	1.00	WFM-0608-15
7.0		9.0	15.0	10.0	1.00	WFM-0709-10
7.0		9.0	15.0	12.0	1.00	WFM-0709-12
8.0		10.0	15.0	2.7	1.00	WFM-0810-02
8.0		10.0	15.0	4.0	1.00	WFM-0810-04
8.0		10.0	15.0	5.5	1.00	WFM-0810-05
8.0		10.0	15.0	7.5	1.00	WFM-0810-07
8.0	+0.025	10.0	15.0	9.5	1.00	WFM-0810-09
8.0	+0.083	10.0	15.0	10.0	1.00	WFM-0810-10
8.0		10.0	15.0	23.0	1.00	WFM-0810-23
8.0		10.0	15.0	30.0	1.00	WFM-0810-30
8.0		10.0	15.0	5.0	1.00	WFM-081015-05
10.0		12.0	18.0	4.0	1.00	WFM-1012-04
10.0		12.0	18.0	5.0	1.00	WFM-1012-05

³⁾ After press-fit. *Testing methods, page 57*


d1	d1 Tolerance ³⁾	d2	d3	b1 h13	b2 h13	Part No.
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
10.0		12.0	18.0	6.0	1.00	WFM-1012-06
10.0		12.0	18.0	7.0	1.00	WFM-1012-07
10.0		12.0	18.0	9.0	1.00	WFM-1012-09
10.0	+0.025	12.0	18.0	10.0	1.00	WFM-1012-10
10.0	+0.083	12.0	18.0	12.0	1.00	WFM-1012-12
10.0		12.0	18.0	15.0	1.00	WFM-1012-15
10.0		12.0	18.0	17.0	1.00	WFM-1012-17
12.0		14.0	20.0	4.0	1.00	WFM-1214-04
12.0		14.0	20.0	4.4	1.00	WFM-1214-044
12.0		14.0	20.0	6.0	1.00	WFM-1214-06
12.0		14.0	20.0	7.0	1.00	WFM-1214-07
12.0		14.0	20.0	9.0	1.00	WFM-1214-09
12.0		14.0	20.0	10.0	1.00	WFM-1214-10
12.0		14.0	20.0	11.0	1.00	WFM-1214-11
12.0		14.0	20.0	12.0	1.00	WFM-1214-12
12.0		14.0	20.0	15.0	1.00	WFM-1214-15
12.0		14.0	20.0	17.0	1.00	WFM-1214-17
12.0	+0.032	14.0	20.0	20.0	1.00	WFM-1214-20
13.0	+0.102	15.0	22.0	6.0	1.00	WFM-1315-06
14.0		16.0	22.0	4.0	1.00	WFM-1416-04
14.0		16.0	22.0	5.0	1.00	WFM-1416-05
14.0		16.0	22.0	8.0	1.00	WFM-1416-08
14.0		16.0	22.0	12.0	1.00	WFM-1416-12
14.0		16.0	22.0	17.0	1.00	WFM-1416-17
14.0		16.0	22.0	29.0	1.00	WFM-1416-29
15.0		17.0	23.0	9.0	1.00	WFM-1517-09
15.0		17.0	23.0	12.0	1.00	WFM-1517-12
15.0		17.0	23.0	17.0	1.00	WFM-1517-17

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d1	d1	d2	d3	b1	b2	Part No.
[mm]	Tolerance ³⁾	[mm]	d13 ³⁾	h13	h13	
15.0		17.0	23.0	20.0	1.00	WFM-1517-20
16.0		18.0	24.0	9.0	1.00	WFM-1618-09
16.0		18.0	24.0	12.0	1.00	WFM-1618-12
16.0		18.0	24.0	17.0	1.00	WFM-1618-17
17.0	+0.032	19.0	25.0	12.0	1.00	WFM-1719-12
17.0	+0.102	19.0	25.0	18.0	1.00	WFM-1719-18
17.0		19.0	25.0	25.0	1.00	WFM-1719-25
18.0		20.0	26.0	6.0	1.00	WFM-1820-06
18.0		20.0	26.0	12.0	1.00	WFM-1820-12
18.0		20.0	26.0	17.0	1.00	WFM-1820-17
18.0		20.0	26.0	22.0	1.00	WFM-1820-22
20.0		23.0	30.0	8.0	1.50	WFM-2023-08
20.0		23.0	30.0	8.5	1.50	WFM-2023-085
20.0		23.0	30.0	11.5	1.50	WFM-2023-11
20.0		23.0	30.0	14.5	1.50	WFM-2023-14
20.0		23.0	30.0	16.5	1.50	WFM-2023-16
20.0		23.0	30.0	21.5	1.50	WFM-2023-21
24.0	+0.040	27.0	32.0	10.5	1.50	WFM-2427-10
25.0	+0.124	28.0	35.0	11.5	1.50	WFM-2528-11
25.0		28.0	35.0	16.5	1.50	WFM-2528-16
25.0		28.0	35.0	21.5	1.50	WFM-2528-21
25.0		28.0	32.0	30.0	1.50	WFM-2528-30
25.0		28.0	31.0	13.5	1.50	WFM-252831-13
28.0		30.0	35.0	36.0	1.00	WFM-2830-36
30.0		34.0	42.0	10.0	2.00	WFM-3034-10

d1	d1	d2	d3	b1	b2	Part No.
[mm]	Tolerance ³⁾	[mm]	d13 ³⁾	h13	h13	
30.0	+0.040	34.0	42.0	16.0	2.00	WFM-3034-16
30.0	+0.124	34.0	42.0	26.0	2.00	WFM-3034-26
30.0		34.0	42.0	37.0	2.00	WFM-3034-37
32.0		36.0	40.0	16.0	2.00	WFM-3236-16
32.0		36.0	40.0	26.0	2.00	WFM-3236-26
35.0		39.0	47.0	9.0	2.00	WFM-3539-09
35.0		39.0	47.0	16.0	2.00	WFM-3539-16
35.0		39.0	47.0	26.0	2.00	WFM-3539-26
35.0	+0.050	39.0	50.0	35.0	2.00	WFM-353950-35
38.0	+0.150	42.0	50.0	22.0	2.00	WFM-3842-22
40.0		44.0	52.0	30.0	2.00	WFM-4044-30
40.0		44.0	52.0	40.0	2.00	WFM-4044-40
45.0		50.0	58.0	50.0	2.00	WFM-4550-50
50.0		55.0	63.0	40.0	2.00	WFM-5055-40
50.0		55.0	63.0	50.0	2.00	WFM-5055-50
55.0		60.0	68.0	60.0	2.00	WFM-5560-60
57.0		62.0	67.0	40.0	2.00	WFM-5762-40
60.0	+0.060	65.0	73.0	60.0	2.00	WFM-6065-60
65.0	+0.180	70.0	78.0	60.0	2.00	WFM-6570-60
70.0		75.0	83.0	100.0	2.50	WFM-7075-100
75.0		80.0	88.0	100.0	2.50	WFM-7580-100
80.0		85.0	93.0	100.0	2.50	WFM-8085-100
90.0	+0.072	95.0	103.0	100.0	2.50	WFM-9095-100
100.0	+0.212	105.0	113.0	100.0	2.50	WFM-100105-100
120.0		125.0	133.0	100.0	2.50	WFM-120125-100

³⁾ After press-fit. Testing methods, page 57

 **Available from stock**
Detailed information about delivery time online.
www.igus.eu/24

 **Online ordering**
Including delivery times, prices, online tools
www.igus.eu/W300

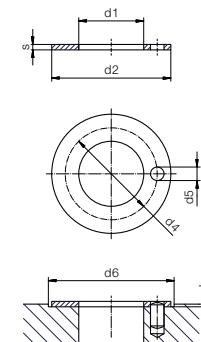
 **Ordering note**
Our prices are scaled according to order quantities, current prices can be found online.


Discount scaling		
1 – 9	50 – 99	500 – 999
10 – 24	100 – 199	1,000 – 2,499
25 – 49	200 – 499	2,500 – 4,999

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Thrust washer (form T)



 **Dimensions according to ISO 3547-1 and special dimensions**

 **Order example: WTM-0509-006 – no minimum order quantity.**
W300 iglidur® material T Thrust washer M Metric 05 Inner Ø d1 09 Outer Ø d2 006 Thickness s

d1	d2	d4	d5	h	d6	s	Part No.
+0.25	-0.25	-0.12 +0.12	+0.375 +0.125	+0.2/-0.2	+0.12	-0.05	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
5	9.5	⁴⁾	⁴⁾	0.3	9.5	0.6	WTM-0509-006
6	20	13	1.5	1	20	1.5	WTM-0620-015
8	18	13	1.5	1	18	1.5	WTM-0818-015
10	18	⁴⁾	⁴⁾	0.7	18	1	WTM-1018-010
10	18	⁴⁾	⁴⁾	1	18	1.5	WTM-1018-015
12	24	18	1.5	1	24	1.5	WTM-1224-015
14	26	20	2	1	26	1.5	WTM-1426-015
15	24	19.5	1.5	1	24	1.5	WTM-1524-015
16	30	23	2	1	30	1.5	WTM-1630-015
18	32	25	2	1	32	1.5	WTM-1832-015
18	44	30	7	1	44	1.5	WTM-1844-015
20	36	28	3	1	36	1.5	WTM-2036-015
22	38	30	3	1	38	1.5	WTM-2238-015
24	42	33	3	1	42	1.5	WTM-2442-015
26	44	35	3	1	44	1.5	WTM-2644-015
28	40	38	4	1	48	1.5	WTM-2840-015
28	48	38	4	1	48	1.5	WTM-2848-015
32	54	43	4	1	54	1.5	WTM-3254-015
38	62	50	4	1	62	1.5	WTM-3862-015
42	66	54	4	1	66	1.5	WTM-4266-015
48	74	61	4	1.5	74	2	WTM-4874-020
52	78	65	4	1.5	78	2	WTM-5278-020
62	90	76	4	1.5	90	2	WTM-6290-020
82	110	⁴⁾	⁴⁾	1.5	110	2	WTM-82110-020
102	130	⁴⁾	⁴⁾	1.5	130	2	WTM-102130-020
120	150	⁴⁾	⁴⁾	1.5	150	2	WTM-120150-020

⁴⁾ Design without fixing hole