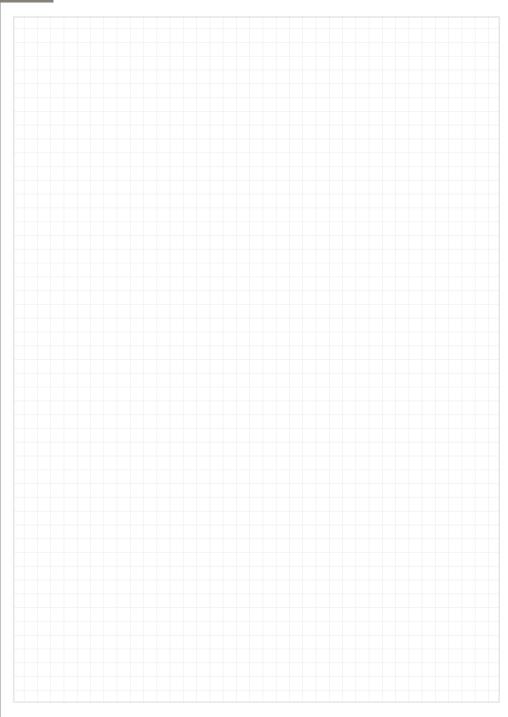
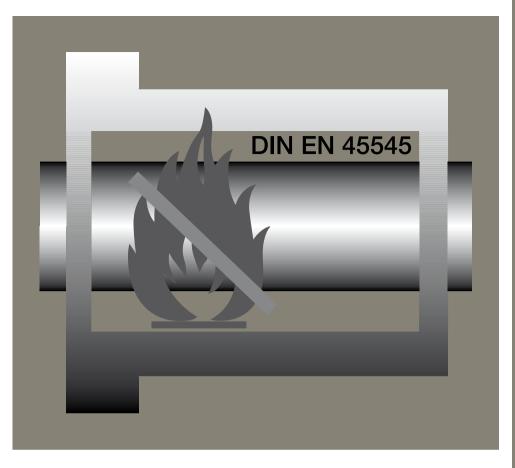
My sketches





According to DIN EN 45545 iglidur® RW370

Complies with the European fire protection standard DIN EN 45545

Flame-retardant

High wear resistance

Low friction

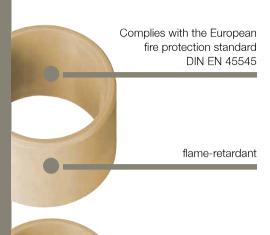
Lubrication and maintenance-free

Standard range from stock



High wear resistance

Low friction



The first iglidur® material that fulfils the European fire safety standard for rail vehicles is suitable for many wear-stressed applications in railway technology due to its complete property profile.



When to use it?

- For applications in rail technology where suitability according to DIN EN 45545 is required
- For highest wear resistance at low to medium
- Low coefficient of friction in dry operation
- Low moisture absorption



When not to use?

- When high pressure loads occur and suitability according to DIN EN 45545 is not needed
- ▶ iglidur® G, page 79
- ▶ iglidur® W300, page 153
- When short-term temperatures occur that are higher than +190°C
- ▶ iglidur® G, page 79
- ▶ iglidur® Z, page 255
- When a cost-effective bearing for occasional movements is necessary
- ▶ iglidur® G, page 79

Typical application areas

- Door guides and hinges
- Rotating joint
- Entrance staircases
- Seat table mechanisms

Available from stock

Detailed information about delivery time online.



Block pricing online

No minimum order value. From batch size 1.



Max. +170°C Min. -50°C



Ø 6-20 mm

More dimensions upon request



Online product finder

▶ www.iqus.eu/iqlidur-finder

iglidur® RW370 | Technical data

RW370 +170°C 75 MPa

Material properties

General properties	Unit	iglidur® RW370	Testing method
Density	g/cm³	1.34	DIN EN ISO 1183-1
Colour		beige	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.25	ISO 175
Max. water absorption	% weight	1.2	ISO 62
Coefficient of sliding friction, dynamic, against steel	μ	0.13-0.17	
pv value, max. (dry)	MPa · m/s	1.2	
Mechanical properties			
Flexural modulus	MPa	2,997	DIN EN ISO 178
Flexural strength at +20°C	MPa	100	DIN EN ISO 178
Compressive strength	MPa	129	
Max. recommended surface pressure (+20 °C)	MPa	75	
Shore-D hardness		80	DIN 53505
Physical and thermal properties			
Max. long-term application temperature	°C	+170	
Max. short-term application temperature	°C	+190	
Min. long-term application temperature	°C	-50	
Heat conductivity	W/m ⋅ K	0.22	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	K⁻¹ · 10⁻⁵	5	DIN 53752
Electrical properties			
Specific contact resistance	Ωcm	> 1012	DIN IEC 93
Surface resistance	Ω	> 1012	DIN 53482

Table 01: Material properties table

Radiation resistance

Plain bearings made from iglidur® RW370 are resistant to radiation up to an intensity of applications 3 · 10² Gy.

UV resistance

When subjected to UV radiation, iglidur® RW370 plain bearings change colour. However, hardness, compressive strength and the wear resistance of the material do not change.

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

+ resistant 0 conditionally resistant - not resistant All data given at room temperature [+20 °C] Table 02: Chemical resistance

► Chemical table, page 1432

Installation tolerances

iglidur® RW370 plain bearings are standard bearings for shafts with h-tolerance (recommended minimum h9). The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, in standard cases the inner diameter automatically adjusts to the F10 tolerances. For particular dimensions the tolerance differs depending on the wall thickness (please see product range table).

► Testing methods, page 57

Diameter		Shaft	iglidur® RW370	Housing	
d1 [mm]	h9 [mm] F10 [mm]		H7 [mm]		
up to	3	0-0.025	+0.006 +0.046	0 +0.010	
> 3 to	6	0-0.030	+0.010 +0.058	0 +0.012	
> 6 to	10	0-0.036	+0.013 +0.071	0 +0.015	
> 10 to	18	0-0.043	+0.016 +0.086	0 +0.018	
> 18 to 3	30	0-0.052	+0.020 +0.104	0 +0.021	
> 30 to	50	0-0.062	+0.025 +0.125	0 +0.025	
> 50 to 8	80	0-0.074	+0.030 +0.150	0 +0.030	

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

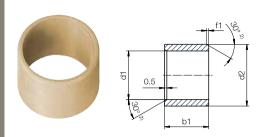




igus

iglidur® RW370 | Product range

Sleeve bearing (Form S)



2) Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

Ø 1-6 d1 [mm]: $\emptyset > 30$ f [mm]: 0.5 1.2

Order key RW370 S M-0608-06

Dimensions according to ISO 3547-1 and special dimensions

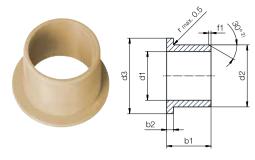
Dimensions [mm]

d1	d1-Tolerance ³⁾	d2	b1	Part No.
			h13	
6.0	+0.010 +0.058	8.0	6.0	RW370SM-0608-06
8.0	+0.013 +0.071	10.0	10.0	RW370SM-0810-10
10.0	+0.013 +0.071	12.0	10.0	RW370SM-1012-10
12.0	+0.016 +0.086	14.0	12.0	RW370SM-1214-12
16.0	+0.016 +0.086	18.0	15.0	RW370SM-1618-15
20.0	+0.020 +0.104	23.0	20.0	RW370SM-2023-20

³⁾ After press-fit. Testing methods ▶ Page 57

iglidur® RW370 | Product range

Flange bearing (Form F)



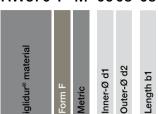
2) Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

d1 [mm]: Ø 1-6 Ø 6-12 | Ø 12-30 | Ø > 30f [mm]: 0.8 1.2

Order key

RW370 F M-0608-08



Dimensions according to ISO 3547-1 and special dimensions

Dimensions [mm]

d1	d1-Tolerance ³⁾	d2	d3 d13	b1 h13	b2 -0.14	Part No.
6.0	+0.010 +0.058	8.0	12.0	8.0	1.0	RW370FM-0608-08
8.0	+0.013 +0.071	10.0	15.0	9.5	1.0	RW370FM-0810-09
10.0	+0.013 +0.071	12.0	18.0	9.0	1.0	RW370FM-1012-09
12.0	+0.016 +0.086	14.0	20.0	12.0	1.0	RW370FM-1214-12
16.0	+0.016 +0.086	18.0	24.0	12.0	1.0	RW370FM-1517-12
20.0	+0.020 +0.104	23.0	30.0	21.5	1.5	RW370FM-2023-21

³⁾ After press-fit. Testing methods ▶ Page 57



Couldn't find your size?

Do you need another length, other dimensions or tolerances? You need a particular design or alternative for your application? Please call us. igus® listens to your needs and provides you a solution very quickly.