iglidur® J, sleeve bearing, mm

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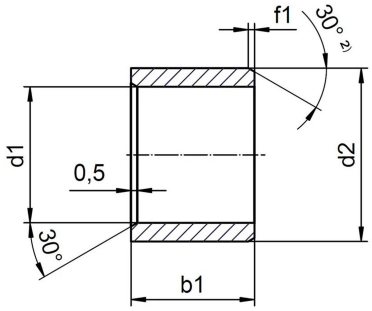

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- Excellent wear resistance at room temperature
- Very good wear resistance at medium temperatures
- Excellent friction coefficients
- Low moisture absorption
- High media resistance
- Resistant to edge pressure
- Resistant to shocks and impacts
- Resistant to dirt and dust
- Mould resistant according to DIN EN ISO 846

Product description

Introducing the iglidur® J sleeve bearing, the versatile endurance runner from igus. Designed for high speeds and excellent wear resistance, it features low friction coefficients for smooth operation. With low moisture absorption and high resistance to chemicals, dirt, and shocks, it's perfect for applications in vending machines, printing, beverages, aviation, and cleanrooms. Choose iglidur® J for reliable performance in demanding environments, ensuring longevity and durability in every use.

Electricity attributes

Specific transitional resistance	> 10^{13} Ωcm, test method DIN IEC 93
Surface resistance	> 10^{12} Ω, test method DIN 53482

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	Yes
Detectable	No
RoHS 2 compliant according to EU guideline 2011/65/EU	Yes

General properties

Coefficient of friction, dynamic, against steel	0,06 - 0,18 µ
pv value, max. (dry)	0.34 MPa · m/s
Radioactive radiation max.	3 10^{2} Gy
CO2 equivalent per piece	0.0167 kg

Thermal properties

Max. long-term application temperature	90 °C
Max. short-term application temperature	120 °C
Lower application temperature	-50 °C
Heat conductivity	0.25 W/m · K, Prüfmethode ASTM C 177
Thermal expansion coefficient (at 23°C/73°F)	10 K–1 · 10–5 DIN53752

Dimensions

Shaft diameter	20 mm
Ø d2	23 mm
b1	15 mm
Length of bevel (f1)	0.8 mm
Length of bevel (f4)	0.5 mm
Bevel angle (f1)	30 °
Bevel angle (f4)	30 °

Mechanical properties

Compressive strength	60 MPa
Max. recommended surface pressure	35 MPa
Maximum surface speed, oscillating, short-term	2.1 m/s
Maximum surface speed, rotating, continuous	1.5 m/s
Maximum surface speed, rotating, short-term	3 m/s
Maximum surface speed, oscillating, continuous	1.1 m/s
Maximum surface speed, linear, continuous	8 m/s
Maximum surface speed, linear, short-term	10 m/s

Manufacturing and installation tolerances

b1 tolerance	h13
Tolerance of shaft	h9
d1 after press-fit (max.)	20.124 mm
d1 after press-fit (min.)	20.04 mm
Shaft dimensions (max.)	20 mm
Shaft dimensions (min.)	19.948 mm
Tolerance d2 Housing bore min.	0 mm
Tolerance d2 Housing bore max.	0.021 mm

Certificates and standards