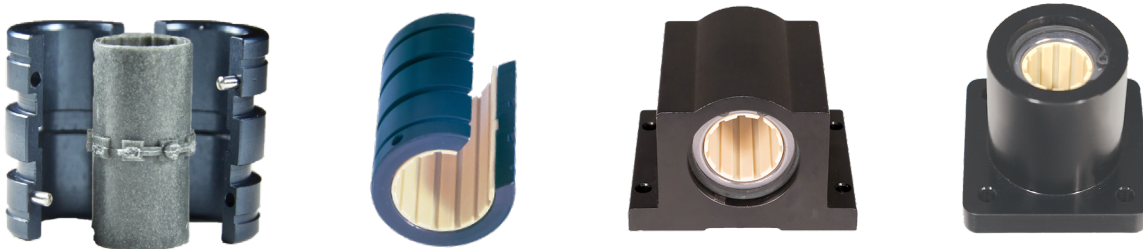


Which drylin® liner material is ideal for my application?

We know it can get confusing and overwhelming when trying to choose the right [liner material](#) for your drylin® [W](#) or [R](#) system since there are so many options available. That's why we wanted to provide you with this at-a-glance overview to make the process a little easier. FYI: Another useful tool is our [online configurator](#) where you can mock up your application and compare the lifetimes of the different materials.

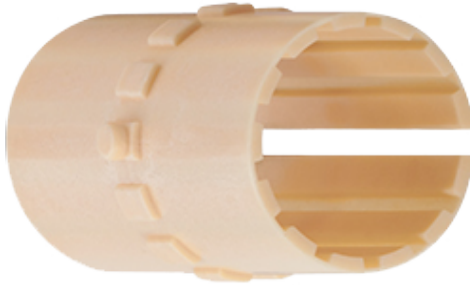
All our liners can be purchased separately, or they can be integrated into our adaptors as well as our standard and flanged pillow blocks, making them dimensionally interchangeable with linear ball bearing guides.



Our liners are specially designed with fluted ID's (inner diameters), which help mitigate thermal expansion and dial in a more precise fit than a typical press-fit plain bearing. These flutes on the ID also act as "dirt channels" in applications contaminated with debris.

Now, let's get into the overview of our liner materials so you can start designing your application sooner than later.





iglide® J:

The original yellow “all-rounder”

iglide® J is our original liner material and works well on every shaft material that we offer.

The iglide® J liners are also available in a low-clearance version, which cuts the ID tolerance of the bearing in half. They are available in both metric and imperial dimensions.

Standard Clearance

Dimensions [mm]

Part No.	d1	d1 tolerance [®]
JUM-01-10	10	+0.030 +0.070
JUM-01-12	12	+0.030 +0.070
JUM-01-16	16	+0.030 +0.070
JUM-01-20	20	+0.030 +0.070
JUM-01-25	25	+0.030 +0.070
JUM-01-30	30	+0.040 +0.085
JUM-01-35	35	+0.040 +0.085
JUM-01-40	40	+0.040 +0.085
JUM-01-50	50	+0.050 +0.150
JUM-01-60 [™]	60	+0.050 +0.150

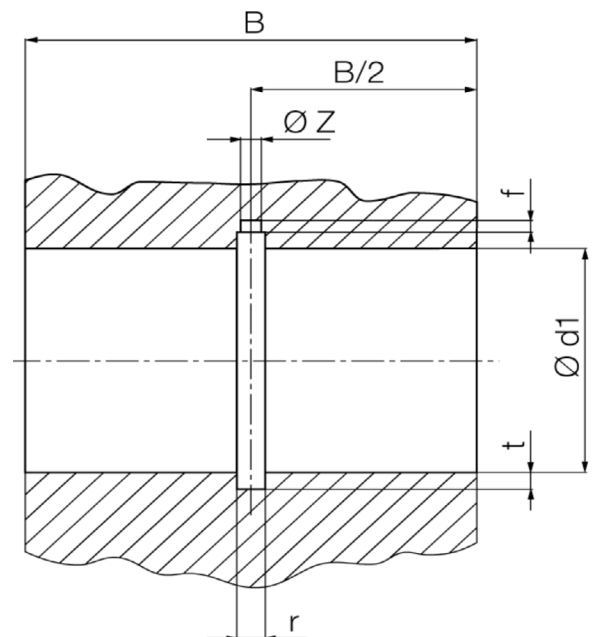
Low Clearance

Dimensions [mm]

Part No.	d1	d1-Tolerance [®]
JUM-11-10	10	+0.000 +0.040
JUM-11-12	12	+0.000 +0.040
JUM-11-16	16	+0.000 +0.040
JUM-11-20	20	+0.000 +0.040
JUM-11-25	25	+0.000 +0.040
JUM-11-30	30	+0.000 +0.050
JUM-11-40	40	+0.000 +0.050
JUM-11-50	50	+0.000 +0.060

Technical Properties:

- For all shaft materials:
 - o Hard-anodized aluminum
 - o 300-series stainless
 - o 400-series stainless
 - o Carbon-steel
- Best coefficient of friction with steel shaft
- Longest service life with hard-anodized aluminum
- Max. static surface pressure: 35 MPa
- Moisture absorption: 1.3% weight





iglide® J200: Aluminum shaft/rail specialist

[iglide® J200](#) is a material that has been optimized to work specifically with drylin® aluminum shafts and guide rails. It exhibits a lower coefficient of friction than iglide® J and offer a longer service life. These liners are available in metric and imperial dimensions.

Technical Properties:

- Ideal for hard-anodized aluminum shafts – best coefficient of friction, longest service life
- Application temperature: -58°F to 194°F
- Max. static surface pressure: 23 MPa
- Moisture absorption: 0.7 % weight

iglide® E7: Aluminum shaft/rail specialist

[iglide® E7](#) has been tribologically optimized for long service life on steel and stainless-steel shafting. This material has [the longest lifetime of any material we have tested](#) – competitive or otherwise – on the market. iglide® E7 liners are available in both inch and metric sizes.



Technical Properties:

- Ideal for steel and stainless-steel shafts – best coefficient of friction, longest service life
- Application temperature: -58°F to 158°F
- Max. static surface pressure: 18 MPa
- Moisture absorption: 0.1 % weight



iglide® X: High temperature and chemical problem solver

[iglide® X](#), also known as T500 in North America, has long been the go-to material for high temperature linear applications as well as applications requiring extreme chemical resistance. It is not recommended for use on aluminum shafting but works well on stainless and hard-chromed materials. iglide® X liners are available in imperial and metric dimensions.

Technical Properties:

- Ideal for hardened stainless-steel shafts/guides – longest service life
- Application temperature: -148°F to 482°F
- Best coefficient of friction with hard-chromed stainless steel
- Max. static surface pressure: 150 MPa
- Moisture absorption: 0.5 % weight

iglide® A160: Blue-sky thinking FDA/EU-compliant

[iglide® A160](#) is one of our latest material innovations. It features FDA compliance for food and pharma packaging and processing machines. The material has extremely low moisture absorption and would work well in any underwater or high humidity applications. The best shaft material to pair with it is hardened 400-series stainless steel. iglide® A160 liners are available in metric dimensions.



Technical Properties:

- Ideal for hardened stainless-steel shafts – best coefficient of friction, longest service life
- Application temperature: -58°F to 194°F
- Max. static surface pressure: 15 MPa
- Moisture absorption: 0.1 % weight

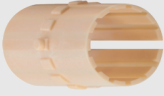


iglide® A180: FDA-compliant

Another liner in our FDA-compliant product offering is our [iglide® A180](#) material. A180 can withstand higher loads than the A160 material and works well on all shafting materials. These liners are available in metric dimensions.

Technical Properties:

- Ideal for hard-anodized aluminum shafts
- Best coefficient of friction, longest service life with stainless steel shaft
- Application temperature: -58°F to 194°F
- Max. static surface pressure: 23 MPa
- Moisture absorption: 0.2 % weight

	 The All-rounder – iglide® J	 The specialist – iglide® J200	 The extreme – iglide® X	 The endurance runner – iglide® E7	 The FDA-compliant – iglide® A180	 Blue Sky Thinking FDA/EU-compliant – iglide® A160
Application temperature	from -58°F to +194°F (-50°C to +90°C)	from -58°F to +194°F (-50°C to +90°C)	from -148°F to +482°F (-100°C to +250°C)	from -58°F to +158°F (-50°C to +70°C)	from -58°F to +194°F (-50°C to +90°C)	from -58°F to +194°F (-50°C to +90°C)
Best coefficient of friction with	Steel shaft	Hard-anodized aluminum	Hard-chromed steel	Steel/stainless steel shaft	Stainless steel shaft	Hardened stainless steel shafts
Volume resistance	> 10 ¹⁰ Ωcm	> 10 ¹⁰ Ωcm	< 10 ¹⁰ Ωcm	> 10 ¹⁰ Ωcm	> 10 ¹⁰ Ωcm	> 10 ¹⁰ Ωcm
Moisture absorption	1.3% weight	0.7% weight	0.5% weight	< 0.1% weight	0.2% weight	< 0.1% weight
Maximum service life with	Hard-anodized aluminum	Hard-anodized aluminum	Hardened stainless steel	Steel/stainless steel shaft	Stainless steel shaft	Hardened stainless steel shafts
Potential counter partner	All shaft materials	Hard-anodized aluminum	Hardened stainless steel	Steel/stainless steel shaft	All shaft materials	Stainless steel
Permissible stat. surface pressure	5,076 psi (35MPa)	3,336 psi (23MPa)	21,760 psi (150MPa)	2,611 psi (18MPa)	4,061 psi (28MPa)	2,176 psi (15MPa)
Part No.	JUI / JUM-...	J200UI / J200UM-...	XUI / XUM-...	E7UI / E7UM-...	A180UM-...	A160UM-...