



TECHNYMON GLOBAL BEARING
TECHNOLOGIES

YOUR RECOGNISED GLOBAL
PARTNER FOR SLIDING
BEARING APPLICATIONS.
WORKING TOGETHER TO
CREATE SOLUTIONS FOR THE
MOST DEMANDING BEARING
APPLICATIONS.

INSIDE EACH MECHANISM



OIL&GAS

BROCHURE

TECHNYMON

Technymon was founded in 1975 as a small family owned company specialized in the production of sliding bearings located in the region of Lombardy (Bergamo), North Italy. During it's 42 years of history the company has shown a deep commitment to innovation & product development and with the support of a highly skilled technical team, it has rapidly gained success in all the principal markets worldwide. In May 2017, Technymon was taken over by Global Bearing Technologies, a subsidiary of Netherlands based Investment firm UC Capital.

TECHNOLOGY & INNOVATION

With it's headquarters in Bergamo, Technymon is situated in the heart of Italy's most technologically advanced industrial region well-known for its innovative companies particularly in the field of mechanical engineering and Oil & Gas. The company has continuously invested in research and product improvement with its purpose-built, modern factory. Through partnering closely with our clients since so many years we have a profound understanding of the sliding bearing industry and it's needs.

WORLD WIDE

Over the years Technymon has invested in opening new manufacturing facilities and sales companies throughout the world, and nowadays it is present in the European, American, South-American and Asian markets.

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SLIDING BEARINGS FOR OIL&GAS

MAIN APPLICATIONS



FAIR LEAD & WINCHES



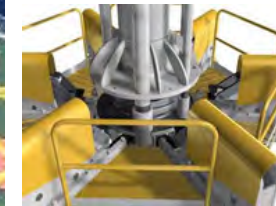
IRON ROUGHNECK UNIT



CRANE ASSEMBLIES



HYDRAULIC ROUGHNECK UNIT



RISE & PULL SYSTEM



LOADING ARM



STINGER SYSTEMS



TOP DRIVE SYSTEMS



DREDGING SYSTEMS



AIR TIGHT GAS DOORS

SLIDING BEARINGS FOR VALVES & ACTUATORS

MAIN APPLICATIONS



**TRUNNION MOUNTED
BALL VALVES**



CONTROL VALVES



**DAMPER
BUTTERFLY VALVES**



**SWING CHECK
VALVES**



ACTUATORS



BUTTERFLY VALVES



DUAL PLATE CHECK VALVES



NEEDLE VALVES



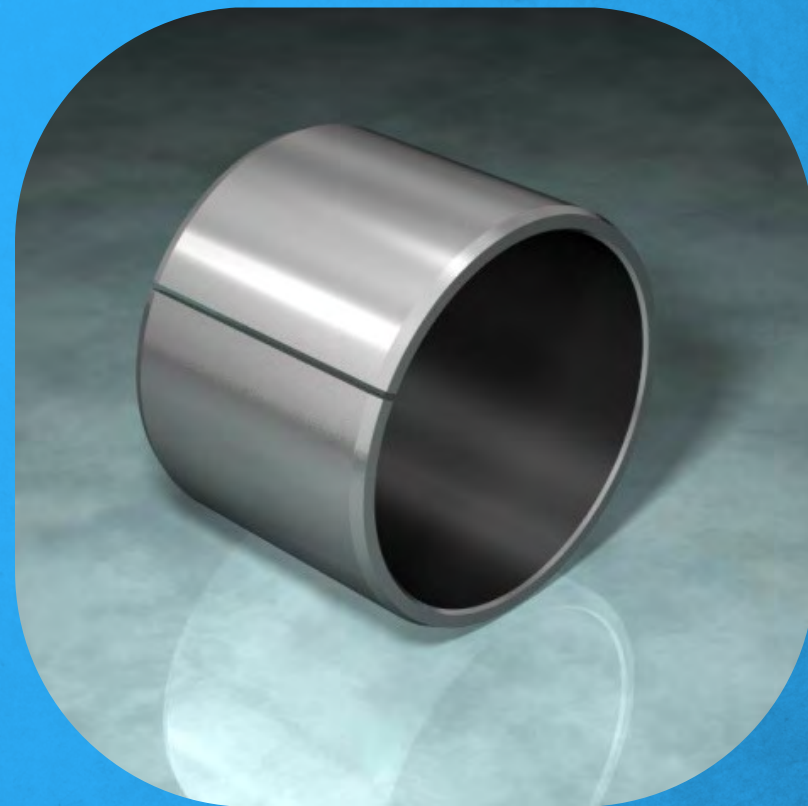
ECCENTRIC PLUG VALVES

Description:

MU is a composite multiple-layer material used in the manufacture of dry self lubricating sliding bearings. The main parts comprising this product are: a loaded PTFE-based sliding layer (without lead, complying with the European Parliament's "ELV" directive 2000/53/EC), a sintered tin bronze layer, and a low carbon steel support. Thanks to its structure, MU provides an excellent match between the mechanical strength of steel and the low coefficient of friction due to the PTFE-based sliding layer. The bronze layer guarantees a sound coupling for the self-lubricating mixture and allows a good loss of the heat produced during operation.

CHARACTERISTICS:

- High load capacity
- Dry self-lubrication
- Low friction factor, either static and dynamic (no stick-slip effect)
- Minimized wear and excellent service life
- High chemical inertia and good compatibility with fluids
- Wide range of working temperatures
- Good thermal conductivity
- Good electrical conductivity
- Small overall dimensions
- Easy mounting
- Wide selection of standard items
- Special items on demand



TECHNICAL DATA:

Maximum PV factor -Dry	Alternative Movement	PV	0.9N/mm ² ·m/s	25.000 psi-fpm
	Continuos Movement	PV	1,8 N/mm ² ·m/s	50.000 psi-fpm
	Short Term Limit	PV	3,6 N/mm ² ·m/s	100.000 psi-fpm
Maximum Specific Load	Static	P	250 N/mm ²	35500 psi
	Dynamic	P	140 N/mm ²	20000 psi
Maximum Speed	Dry	V	2,5 m/s	500 fpm
	Hydrodynamic State	V	< 10 m/s	2000 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+280°C	+536°F
Coeff. of Friction Dry	Minimum		0,02	
	Maximum		0,20	

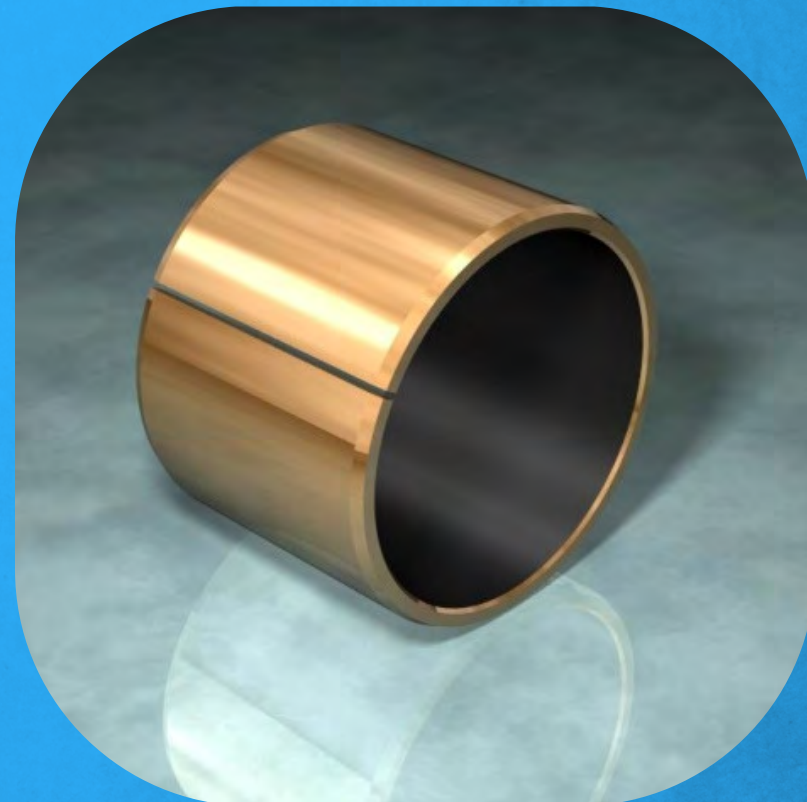
MU-B

Description:

The only difference between the MU and the MU-B is that the support of the MU-B composite structure is made of tin bronze (CuSn8P). Basically, the main parts forming this item are: A loaded PTFE-based sliding layer (without lead, complying with the European Parliament's "ELV" directive 2000/53/EC), a sintered tin bronze layer and a tin bronze support. With MU-B we have improved the strenght against corrosion that can be caused by the presence of water and oxygen, this performance is guaranteed even in a saline enviroment. Corrosion phenomena show up in the presence of fuming sulphuric acid and spirits of turpentine.

CHARACTERISTICS:

- High load capacity
- Dry self-lubrication
- Low friction factor, either static and dynamic (no stick-slip effect)
- Minimized wear and excellent service life
- High chemical inertia and good compatibility with fluids
- Wide range of service temperatures
- Good thermal conductivity
- Good electrical conductivity
- Minimum overall dimensions
- Easy mounting
- Wide selection of standard items
- Special items on demand



TECHNICAL DATA:

Maximum PV factor -Dry	Alternative Movement	PV	0.9N/mm ² ·m/s	25.000 psi-fpm
	Continuos Movement	PV	1,8 N/mm ² ·m/s	50.000 psi-fpm
	Short Term Limit	PV	3,6 N/mm ² ·m/s	100.000 psi-fpm
Maximum Specific Load	Static	P	250 N/mm ²	35500 psi
	Dynamic	P	140 N/mm ²	20000 psi
Maximum Speed	Dry	V	2,5 m/s	500 fpm
	Hydrodynamic State	V	< 10 m/s	2000 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+280°C	+536°F
Coeff. of Friction Dry	Minimum		0,02	
	Maximum		0,20	

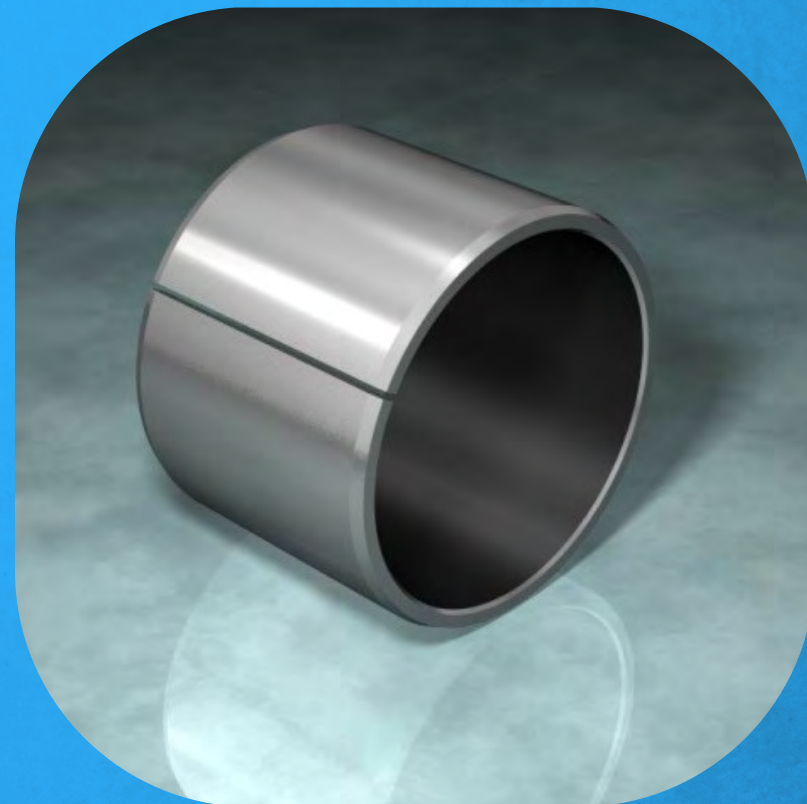
MU-316

Description:

The MU-316 material consists of a based of Stainless Steel (AISI 316), an intermediate layer of bronze alloy, and sliding layer of PTFE Modified with solid lubricant (Pb free). The MU-316 is the ideal material for applications where resistance to corrosion and chemical agents is inevitable. The forms available in this material are: cylindrical bearings, thrust washers, and strips, special articles can be produced at per customer drawing. For production requirements the colour of the product can also be supplied with black paint.

CHARACTERISTICS:

- High load capacity
- Dry self-lubricating
- Low friction factor
- High resistance to corrosion
- Minimum overall dimensions
- Wide range of operating temperature
- High chemical inertia
- Good compatibility with fluids
- Special items available on demand



TECHNICAL DATA:

Maximum PV factor -Dry	Alternative Movement	PV	0.9N/mm ² ·m/s	25.000 psi-fpm
	Continuos Movement	PV	1,8 N/mm ² ·m/s	50.000 psi-fpm
	Short Term Limit	PV	3,6 N/mm ² ·m/s	100.000 psi-fpm
Maximum Specific Load	Static	P	250 N/mm ²	35500 psi
	Dynamic	P	140 N/mm ²	20000 psi
Maximum Speed	Dry	V	2,5 m/s	500 fpm
	Hydrodynamic State	V	< 10 m/s	2000 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+280°C	+536°F
Coeff. of Friction Dry	Minimum		0,02	
	Maximum		0,20	

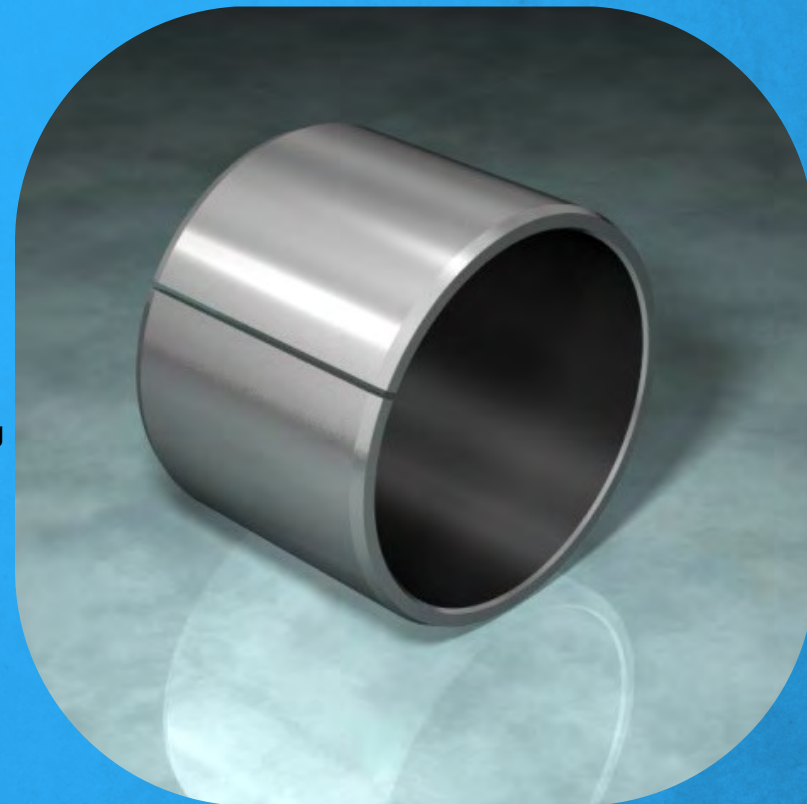
MU-625

Description:

MU is a composite multiple-layer material used in the manufacture of dry self lubricating sliding bearings. The main parts comprising this product are: a loaded PTFE-based sliding layer (without lead, complying with the European Parliament's "ELV" directive 2000/53/EC), a sintered tin bronze layer, and a Inconell-625 support. Thanks to its structure, MU provides an excellent match between the mechanical strength of Inconell-625 efficient of friction due to the PTFE-based sliding layer. The bronze layer guarantees a sound coupling for the self-lubricating mixture and allows a good loss of the heat produced during operation.

CHARACTERISTICS:

- Good load capacity
- Self-lubrication dry
- Low coefficient of friction static and dynamic
- No stick-slip
- Low wear and long service life
- High chemical resistance and good compatibility with fluids
- Wide range of operating temperatures
- High resistance to corrosion
- High chemical inertness
- Space saving
- Ease of installation
- Possibility of special items



TECHNICAL DATA:

Maximum PV factor -Dry	Alternative Movement	PV	0.9N/mm ² ·m/s	25.000 psi-fpm
	Continuos Movement	PV	1,8 N/mm ² ·m/s	50.000 psi-fpm
	Short Term Limit	PV	3,6 N/mm ² ·m/s	100.000 psi-fpm
Maximum Specific Load	Static	P	250 N/mm ²	35500 psi
	Dynamic	P	140 N/mm ²	20000 psi
Maximum Speed	Dry	V	2,5 m/s	500 fpm
	Hydrodynamic State	V	< 10 m/s	2000 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+280°C	+536°F
Coeff. of Friction Dry	Minimum		0,02	
	Maximum		0,20	

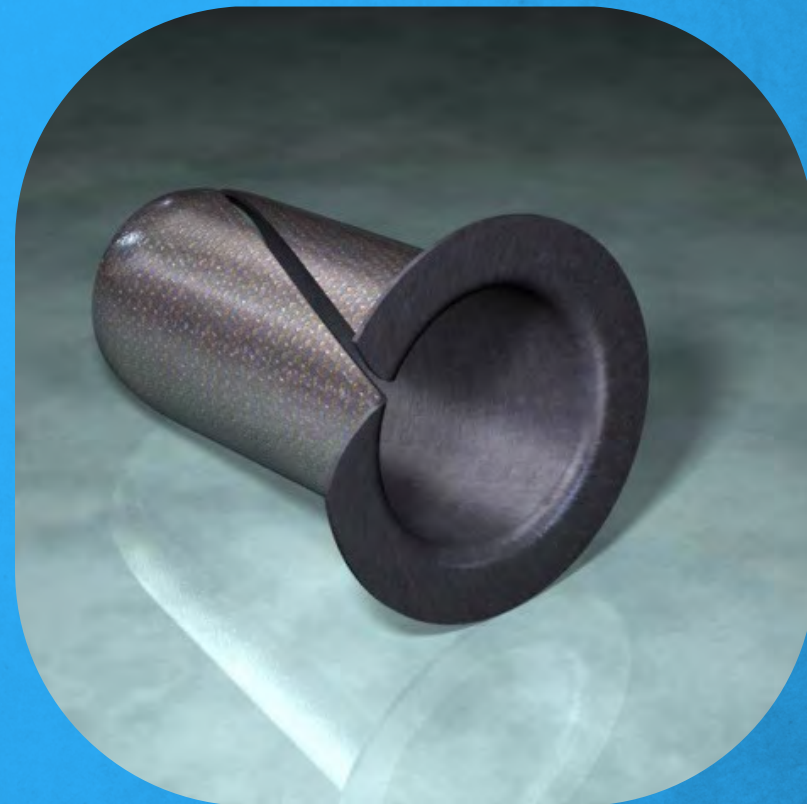
MR-3

Description:

The MR-3 trademark identifies a range of bearings composed of a metal grid housed within PTFE (Polytetrafluoroethylene) loaded with solid lubricants. The bronze grid gives the bearings the mechanical strength and the formability required to manufacture the finished parts; the loaded PTFE gives the MR-3 bearings a low friction factor and a high chemical resistance, entirely similar to those featured by pure PTFE. Thanks to their composite structure, the MR-1 bearings provide the best match of mechanical strength, thermal conductivity and low friction factor. The available products are cylindrical and flanged bearings, washers, belts and cast-to-size parts with thickness ranging from 0,500 to 1,000 mm (.019 to .039 inch). Please contact our technical/commercial offices to forward your requests.

CHARACTERISTICS:

- High load capacities
- Easy mounting
- Good chemical inertia to corrosive agents
- High thermal conductivity
- Negligible water absorption
- Wide range of service temperatures
- Minimum overall dimensions and no maintenance
- Special items available on demand



TECHNICAL DATA:

Maximum PV factor -Dry	Continuos Movement	PV	1,0 N/mm ² ·m/s	50.000 psi-fpm
	Short Term Limit	PV	3,0 N/mm ² ·m/s	83.000 psi-fpm
Maximum Specific Load	Static	P	100 N/mm ²	14500 psi
	Dynamic	P	80 N/mm ²	11600 psi
Maximum Speed	Dry	V	1,0 m/s	500 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+260°C	+500°F
Coeff. of Friction Dry	Minimum		0,03	
	Maximum		0,20	

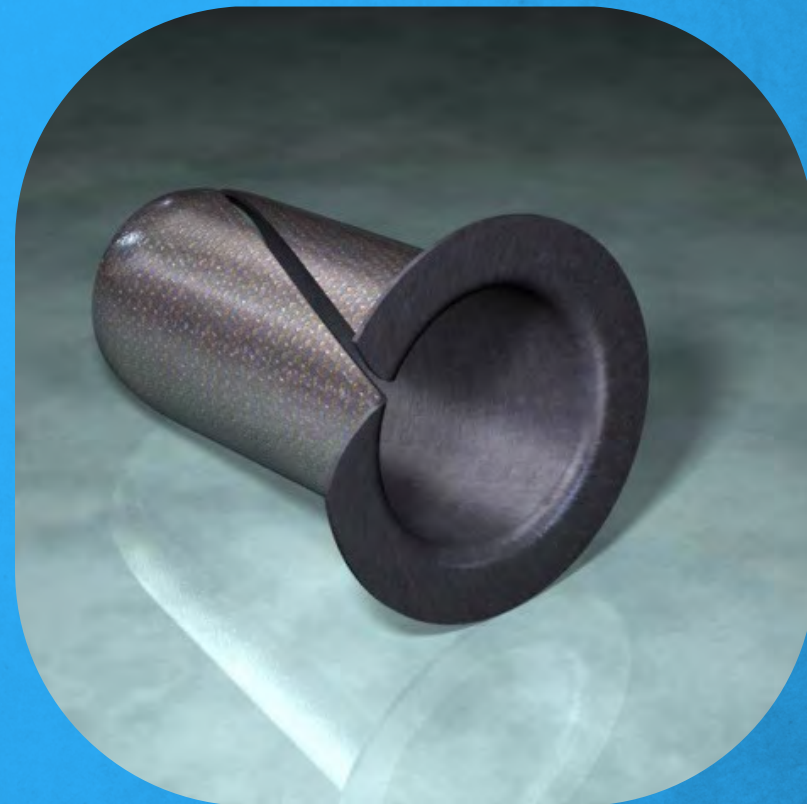
MR-4

Description:

The MR-4 name identifies a range of bearings composed of a metal grid housed within PTFE loaded with solid lubricants. The stainless steel AISI 316 grid gives the bearings the mechanical strength and the formability required to manufacture the finished parts; the loaded PTFE gives the MR-4 bearings a low friction factor and a high chemical resistance, entirely similar to those featured by pure PTFE. Thanks to their composite structure, the MR-4 bearings provide the best match of mechanical strength, thermal conductivity and low friction factor. The available products are cylindrical and flanged bearings, washers, belts, and parts based on customer drawings, with thickness ranging from 0,500 to 1,000 mm (.019 to .039 inch).

CHARACTERISTICS:

- High load capacities
- Easy mounting
- Good chemical inertia to corrosive agents
- High thermal conductivity
- Negligible water absorption
- Wide range of service temperatures
- Minimum overall dimensions and no maintenance
- Special items available on demand



TECHNICAL DATA:

Maximum PV factor -Dry	Continuos Movement	PV	1,0 N/mm ² ·m/s	50.000 psi-fpm
	Short Term Limit	PV	3,0 N/mm ² ·m/s	83.000 psi-fpm
Maximum Specific Load	Static	P	120 N/mm ²	17500 psi
	Dynamic	P	80 N/mm ²	11600 psi
Maximum Speed	Dry	V	1,0 m/s	500 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+260°C	+500°F
Coeff. of Friction Dry	Minimum		0,03	
	Maximum		0,20	

MR-5

Description:

The MR-5 trademark identifies a range of bearings composed material of compounded PTFE (polytetrafluoroethylene) tape on a metal shell (steel). The tape of PTFE contains carbon and graphite and isolates noise and is designed for obtain self lubricated bearings without play. The available products are cylindrical and flanged bearings, washers, belts and cast-to-size parts with thickness standard is from .0196 in. (0,500 mm). Please contact our technical/commercial offices to forward your request).

CHARACTERISTICS:

- Minimum tolerance on the inside diameter
- High load capacity
- Self-lubricating under dry operation
- Minimum wear and excellent operating life
- High chemical resistance and compatibility with fluids
- Minimum dimensions
- Easy of fittings
- Special items on demand
- Excellent performance / cost ratio
- Low static and dynamic coefficient of friction (no stick-slip effect).



TECHNICAL DATA:

Maximum PV factor -Dry	Continuos Movement	PV	1,8 N/mm ² ·m/s	50.000 psi-fpm
	Short Term Limit	PV	2,2 N/mm ² ·m/s	61.100 psi-fpm
Maximum Specific Load	Static	P	200 N/mm ²	29000 psi
	Dynamic	P	150 N/mm ²	21300 psi
Maximum Speed	Dry	V	1,5 m/s	600 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+180°C	+356°F
	Intermittent	t	+260°C	+500°F
Coeff. of Friction Dry	Minimum		0,05	
	Maximum		0,15	

FRITEX

Description:

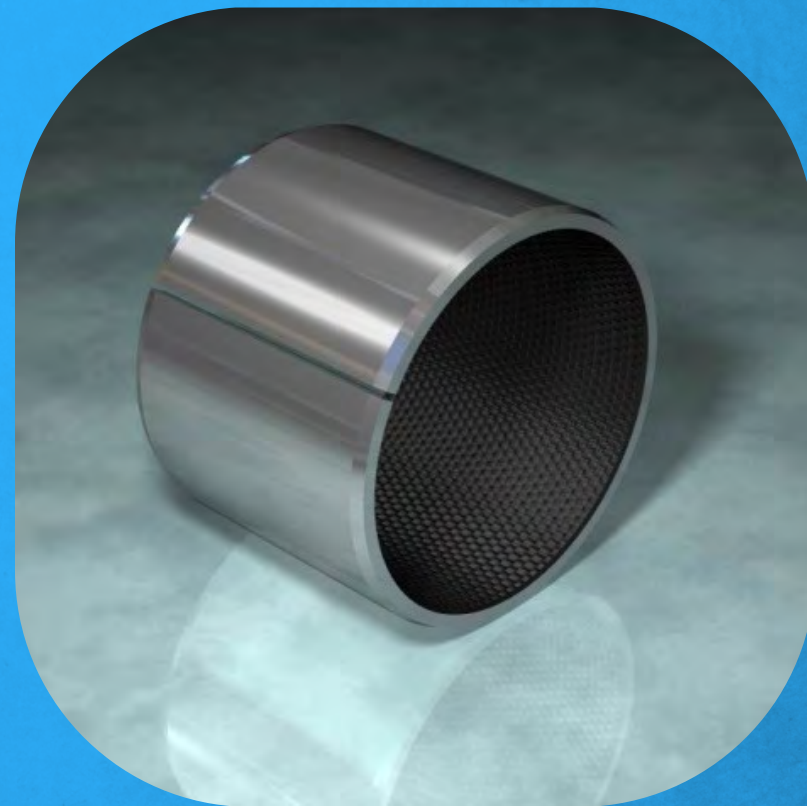
The Fritex trademark identifies a series of bearings that are specially manufactured to allow the sticking of fabric with PTFE fibres on metal supports in various types and shapes. The Sliding Surface fabric is primarily composed of PTFE fibres. The bearing support is available in several materials, that vary according to the application type. These versions are: Fritex-C= standard version with low-carbon steel support Fritex-316= support made from AISI 316 stainless steel Fritex-625= support made from INCONEL-625 nickel alloy Fritex-B= bronze support (CuSn8) Fritex products find their best applications with slow movements, high loads and where dry running is required; e.g. actuators of big valves, textile industry machinery, etc. Please contact our offices to forward your request.

CHARACTERISTICS:

- High load capacity
- Dry self-lubrication
- Low friction factor, either static or dynamic
- Minimized wear and excellent service life
- High chemical inertia and good compatibility with fluids
- Wide range of service temperature values
- High corrosion strength linked with the housing
- Minimized overall dimensions
- Easy mounting
- Standard items widely available
- Special items on demand

TECHNICAL DATA:

Maximum PV factor -Dry	Continuos Movement	PV	2,50 N/mm ² ·m/s	69.400 psi-fpm
	Short Term Limit	PV	10.0 N/mm ² ·m/s	277700 psi-fpm
Maximum Specific Load	Static	P	400 N/mm ²	58000 psi
	Dynamic	P	180 N/mm ²	26000 psi
Maximum Speed	Dry	V	2,5 m/s	1000 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+260°C	+500°F
Coeff. of Friction Dry	Minimum		0,03	
	Maximum		0,15	



INCONELL-625+PTFE

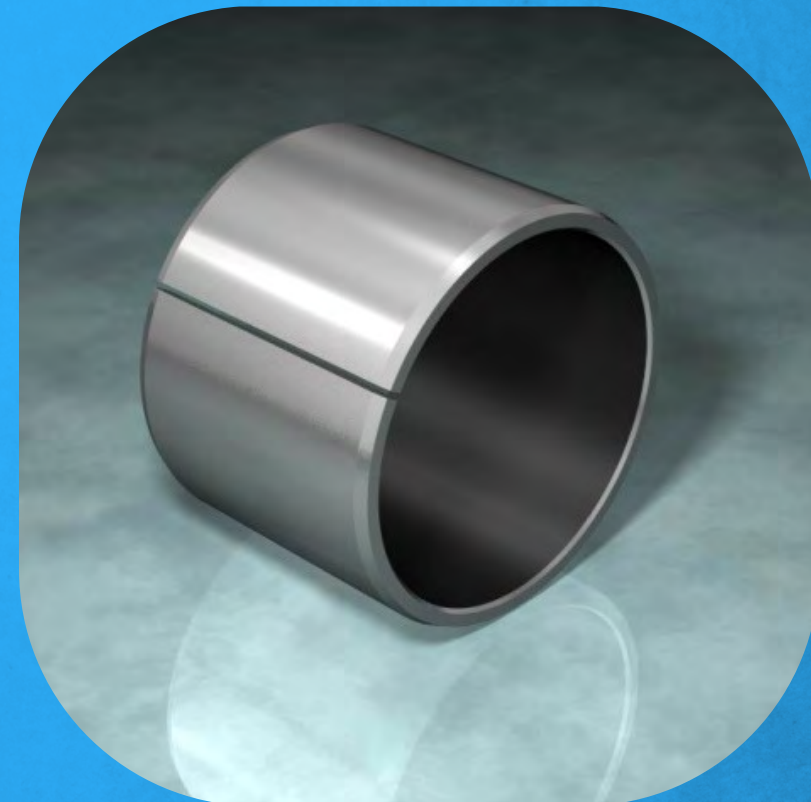
Description:

In625-PTFE bearing have high load capacity and maximum resistance to corrosion. The sliding layer PTFE is applied with a special treatment and technique directly onto an Inconell-625 supporting shell. The In625-PTFE is studied to work in static and semi static application, where a very high resistance to chemical acid, alcohol aggressions and oxidation is needed.

Best performance is given in a self contained environment, like valves, that are difficult to be opened for maintenance.

CHARACTERISTICS:

- Good load capacity
- Dry self-lubrication
- Low coefficient of friction, static and dynamic
- Low wear and long service life
- High chemical resistance and good compatibility with fluids
- Wide range of operating temperatures
- High resistance to corrosion
- Space saving
- Ease of installation



TECHNICAL DATA:

Maximum PV factor -Dry	Alternative Movement	PV	0.1 N/mm ² ·m/s	3.000 psi-fpm
	Continuos Movement	PV	0,2 N/mm ² ·m/s	6.000 psi-fpm
	Short Term Limit	PV	0,4 N/mm ² ·m/s	12.000 psi-fpm
Maximum Specific Load	Static	P	300 N/mm ²	43500 psi
	Dynamic	P	10 N/mm ²	1500 psi
Maximum Speed	Dry	V	0,5 m/s	100 fpm
	Hydrodynamic State	V	1.0 m/s	200 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+280°C	+536°F
Coeff. of Friction Dry	Minimum		0,03	
	Maximum		0,30	

F-51+PTFE

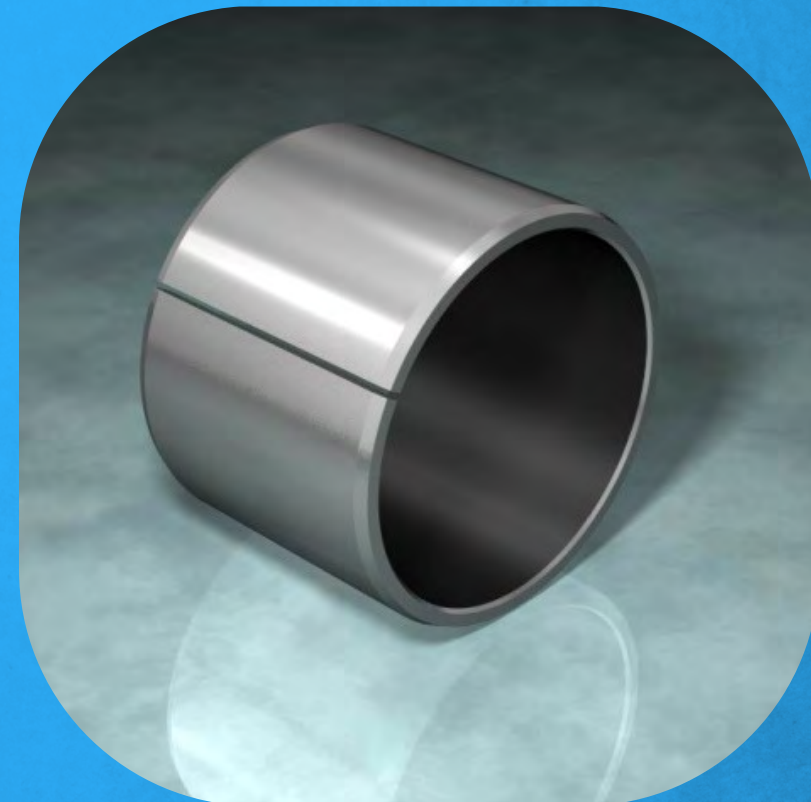
Description:

F-51-PTFE bearing have high load capacity and maximum resistance to corrosion. The sliding layer PTFE is applied with a special treatment and technique directly onto an F-51 supporting shell. The F-51-PTFE is studied to work in static and semi static application, where a very high resistance to chemical acid, alcohol aggressions and oxidation is needed.

Best performance is given in a self contained environment, like valves, that are difficult to be opened for maintenance.

CHARACTERISTICS:

- Good load capacity
- Dry self-lubrication
- Low coefficient of friction, static and dynamic
- Low wear and long service life
- High chemical resistance and good compatibility with fluids
- Wide range of operating temperatures
- High resistance to corrosion
- Space saving
- Ease of installation and items
- Special items on demand



TECHNICAL DATA:

Maximum PV factor -Dry	Alternative Movement	PV	0.1 N/mm ² ·m/s	3.000 psi-fpm
	Continuos Movement	PV	0.2 N/mm ² ·m/s	6.000 psi-fpm
	Short Term Limit	PV	0,4 N/mm ² ·m/s	12.000 psi-fpm
Maximum Specific Load	Static	P	300 N/mm ²	43500 psi
	Dynamic	P	10 N/mm ²	1500 psi
Maximum Speed	Dry	V	0,5 m/s	100 fpm
	Hydrodynamic State	V	1.0 m/s	200 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+280°C	+536°F
Coeff. of Friction Dry 15	Minimum		0,03	
	Maximum		0,30	

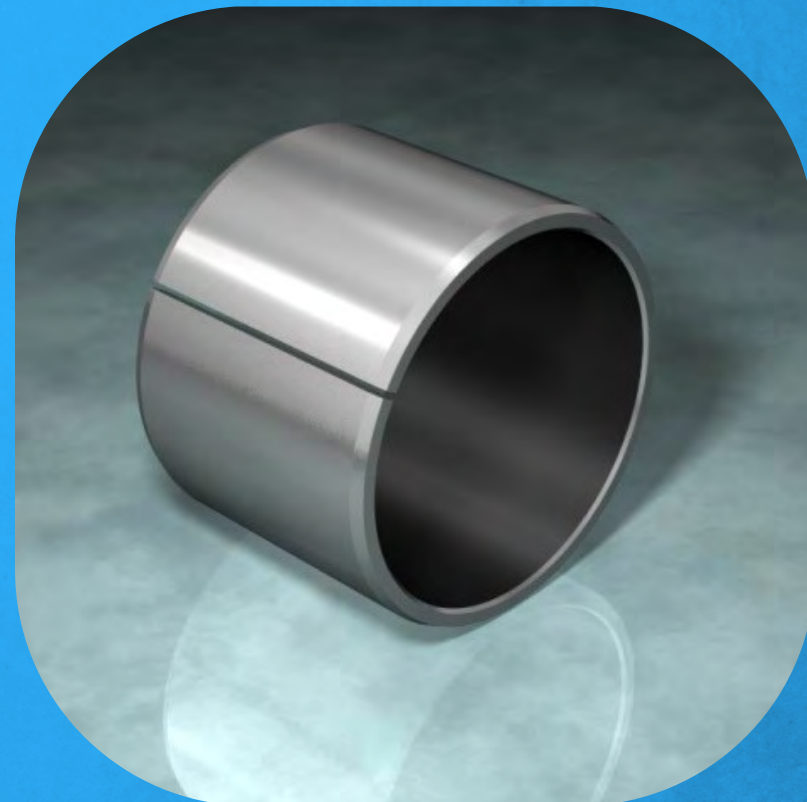
DRINOX

Description:

Drinox self-lubricating bearings, are products with good load capacity and with maximum resistance to corrosion. The sliding layer (PTFE based) is applied, with special treatment, directly on the support of stainless steel AISI 316. Drinox is suitable for applications with static and semi-static needs, with high resistance to chemical attacks from acids, alkalis, and oxidants. It's particularly suitable for use in equipment sealed such as valves and, difficult to disassemble for maintenance.

CHARACTERISTICS:

- Good load capacity
- Dry self-lubrication
- Low coefficient of friction, static and dynamic
- Low wear and long service life
- High chemical resistance and good compatibility with fluids
- Wide range of operating temperatures
- High resistance to corrosion
- Space saving
- Ease of installation



TECHNICAL DATA:

Maximum PV factor -Dry	Alternative Movement	PV	0.1 N/mm ² ·m/s	3.000 psi-fpm
	Continuos Movement	PV	0,2 N/mm ² ·m/s	6.000 psi-fpm
	Short Term Limit	PV	0,4 N/mm ² ·m/s	12.000 psi-fpm
Maximum Specific Load	Static	P	300 N/mm ²	43500 psi
	Dynamic	P	10 N/mm ²	1500 psi
Maximum Speed	Dry	V	0,5 m/s	100 fpm
	Hydrodynamic State	V	1.0 m/s	200 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+280°C	+536°F
Coeff. of Friction Dry	Minimum		0,03	
	Maximum		0,30	

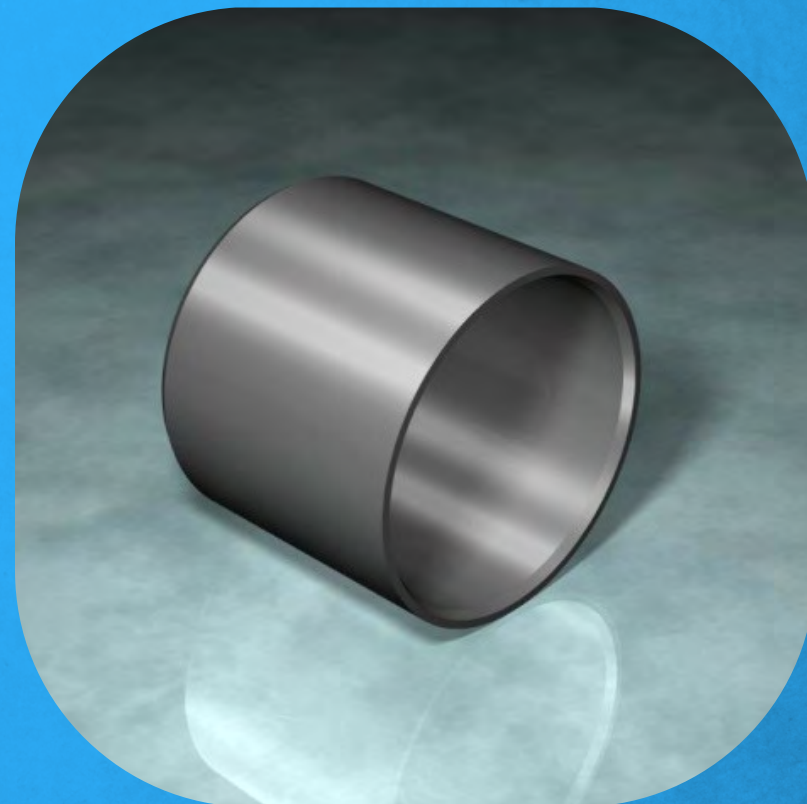
MPG

Description:

MP-G is a thermoplastic material with a lattice of fibres mixed with solid lubricants. The product shows a good wearproofing feature, the solid lubricants highly reduce the friction factor and form, by microabrasion, an excellent sliding surface with the counter-piece. There are several applications, ranging from office furniture, to medical equipment, pneumatic cylinders, hinges, rudder bars, etc. the MP-G series includes cylindrical and flanged bearings as well as washers, and special parts are available on

CHARACTERISTICS:

- High compression strength
- Dry self-lubrication
- Low friction factor, either static or dynamic
- Minimized wear and excellent service life
- Good chemical strength
- Ideal for rotary, swinging or linear movements
- Good abrasion resistance
- Minimized overall dimensions
- Easy mounting
- Wide range of standard items available
- Special items on demand.



TECHNICAL DATA:

Maximum Specific Load	Static	P	80 N/mm ²	11600 psi
Maximum Speed Dry	rotating	V	1,2 m/s	236 fpm
	Linear	V	4.0 m/s	980 fpm
Service temperature	Minimum	t	-40°C	-40°F
	Maximum	t	+130°C	+266°F
Coeff. of Friction Dry	Minimum		0,08	
	Maximum		0,20	

HT-316

Description:

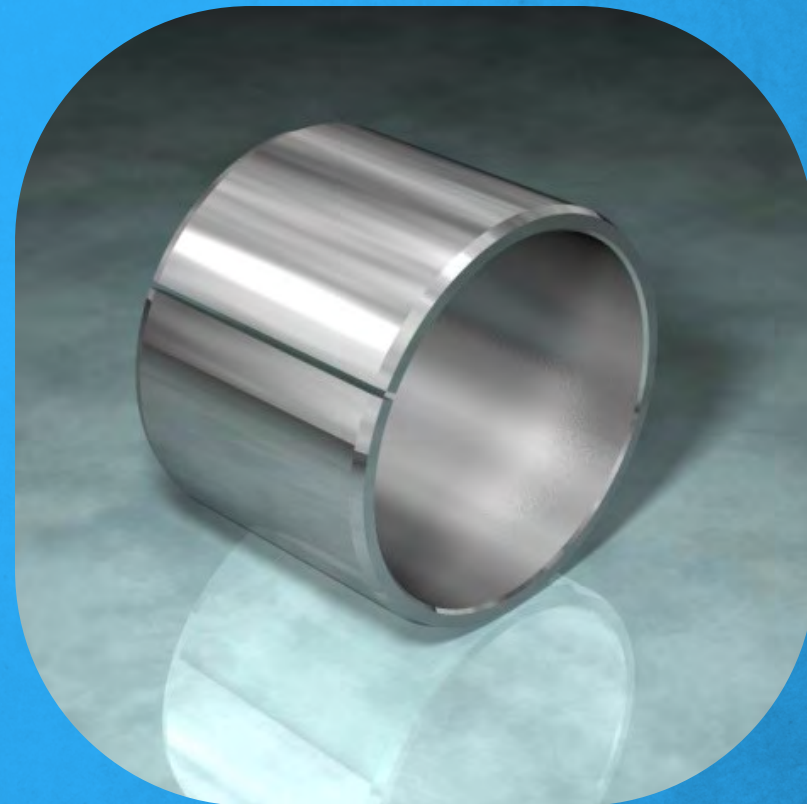
HT-316 identifies a new generation of bearings that are designed for cryogenic use. HT-316 parts have an operating temperature from -200°C to +430 °C.

The outer surface is composed of stainless steel AISI-316, treated with a special coating called "Duritex ML".

We can supply cylindrical bearings, washers and specialty items that meet the demand of the customer's drawing. For best performance, we recommend using shaft with roughness Ra of 0.8 max.

CHARACTERISTICS:

- High load capacity
- Self-lubrication dry
- Low coefficient of friction, static and dynamic
- Minimum wear and excellent service life
- Ease of installation
- High chemical inertness
- Good compatibility with fluids



TECHNICAL DATA:

Maximum PV factor -Dry	Alternative Movement	PV	0,7 N/mm ² ·m/s	20.000 psi-fpm
	Continuos Movement	PV	1,0 N/mm ² ·m/s	29.000 psi-fpm
	Short Term Limit	PV	1.5 N/mm ² ·m/s	41,600 psi-fpm
Maximum Specific Load	Static	P	200 N/mm ²	29000 psi
	Dynamic	P	100 N/mm ²	14500 psi
Maximum Speed Dry	Dry	V	0,5 m/s	100 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+430°C	+806°F
Coeff. of Friction Dry	Minimum		0,07	
	Maximum		0,13	

HT-625

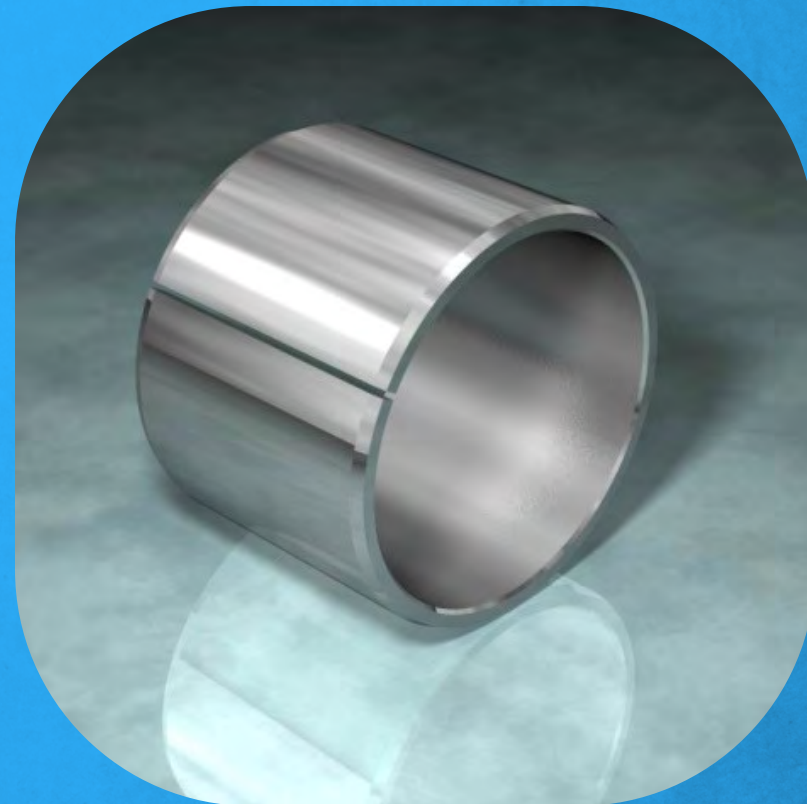
Description:

HT-625 identifies a new generation of bearings that have an operating temperature from -200°C to $+430^{\circ}\text{C}$. The outer surface is composed of Inconel 625 treated with a special coating called "Duritex-ML", chosen for its performance and for its chemical durability and the high capacity to support high loads. We can supply cylindrical bearings, washers and specialty items that meet the demand of the customer's drawing.

For best performance, we recommend using shaft with roughness Ra of 0.8 max.

CHARACTERISTICS:

- High load capacity
- Self-lubrication dry
- Low coefficient of friction, static and dynamic
- Minimum wear and excellent service life
- Ease of installation
- High chemical inertness
- Good compatibility with fluids



TECHNICAL DATA:

Maximum PV factor -Dry	Alternative Movement	PV	0,7 N/mm ² ·m/s	20.000 psi-fpm
	Continuos Movement	PV	1,0 N/mm ² ·m/s	29.000 psi-fpm
	Short Term Limit	PV	1.5 N/mm ² ·m/s	41,600 psi-fpm
Maximum Specific Load	Static	P	200 N/mm ²	29000 psi
	Dynamic	P	100 N/mm ²	14500 psi
Maximum Speed Dry	Dry	V	0,5 m/s	100 fpm
Service temperature	Minimum	t	-200°C	-328°F
	Maximum	t	+430°C	+806°F
Coeff. of Friction Dry	Minimum		0,07	
	Maximum		0,13	

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