

TRELLEX

Solutions India Private Limited

| MOBILE MACHINERY | FLUID TECHNOLOGIES | FARM & FORESTRY |
| OIL & GAS INDUSTRY | WIND & HYDRO POWER | AUTOMOTIVE |



PRODUCT RANGE

HYDRAULIC & PNEUMATIC SEALING

ABOUT US:

Trellex Solutions India Private Limited is committed to delivering reliable, high-performance hydraulic and sealing solutions that meet the evolving demands of modern industries. With a strong focus on quality, precision, and customer satisfaction, we provide a comprehensive range of hydraulic seals, pneumatic seals, O-rings, wipers, guide elements, and customized sealing products engineered for durability and efficiency.

Backed by industry expertise and a customer-centric approach, we serve diverse sectors including construction, manufacturing, mining, automotive, agriculture, and heavy engineering. Our solutions are designed to withstand demanding operating conditions while ensuring optimal performance, reduced downtime and extended equipment life.

At Trellex Solutions India Private Limited, we believe in building long-term partnerships through innovation, technical excellence, timely service and uncompromising quality standards. We strive to be your trusted partner for dependable sealing solutions that power industrial performance.

OUR VISION

To lead the Indian sealing solutions market by redefining standards of quality, precision and customer trust.

OUR MISSION

To provide high-performance sealing solutions that meet the highest standards of quality and precision, ensuring durability and efficiency for our customers through expert support and dependable service.



MOBILE HYDRAULICS



FLUID ENGINEERING



AUTOMOTIVE



POWER GENERATION



FARM & FORESTRY



OIL & GAS INDUSTRY



Contents

- HYDRAULIC ROD SEALS
- HYDRAULIC PISTON SEALS
- HYDRAULIC WIPERS
- GUIDE COMPONENTS
- STATIC SEALS
- ROTARY SEALS
- CASSETTE SEALS
- MECHANICAL FACE SEALS
- ROTARY COMBI SEALS
- PNEUMATIC SEALS
- COMPOSITE BUSHES & PADS
- INFLATTABLE SEALS

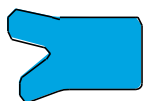




HYDRAULIC SEALS

A Hydraulic seal is used to contain fluids and maintain the hydraulic pressure (piston seal, rod seal), and also to stop the inlet of impurities and to preserve the lubricating film on the rod (wiper)..

Rod seals



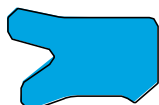
RS01

Materials	PU
Temperature	-30°C / +110°C
Pressure	40 MPa
Speed	0.5 m/s



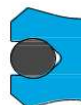
RS05

Materials	PU + POM
Temperature	-30°C / +100°C
Pressure	45 MPa
Speed	0.5 m/s



RS02

Materials	PU
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	5 m/s



RS06

Materials	PU + NBR
Temperature	-30°C / +100°C
Pressure	45 MPa
Speed	0.5 m/s



RS03

Materials	PU
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	5 m/s



RS07

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	15 m/s



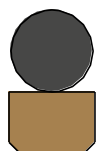
RS04

Materials	PU + POM
Temperature	-30°C / +100°C
Pressure	45 MPa
Speed	0.5 m/s



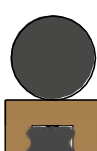
RS08

Materials	NBR + Fabric NBR + TPE
Temperature	-30°C / +110°C
Pressure	40 MPa
Speed	0.5 m/s



RD01

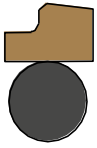
Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	15 m/s



RD03

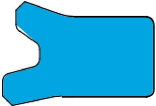
Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	5 m/s

Piston seals



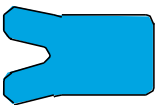
PS01

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	5 m/s



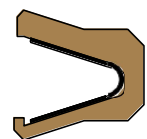
RS02

Materials	PU
Temperature	-30°C / +110°C
Pressure	40 MPa
Speed	0.5 m/s



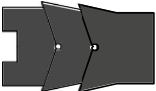
PS03

Materials	PU
Temperature	-30°C / +200°C
Pressure	40 MPa
Speed	0.5 m/s



PS04

Materials	PTFE + STL steel
Temperature	-200°C / +260°C
Pressure	30 MPa
Speed	15 m/s



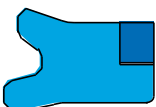
PS05

Materials	NBR + Fabric NBR
Temperature	-30°C / +110°C
Pressure	40 MPa
Speed	0.5 m/s



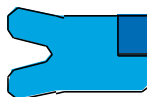
PS06

Materials	Fabric NBR
Temperature	-30°C / +110°C
Pressure	25 MPa
Speed	0.5 m/s



PS07

Materials	PU + POM
Temperature	-30°C / +110°C
Pressure	50 MPa
Speed	0.5 m/s



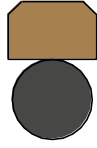
PS08

Materials	PU + POM
Temperature	-30°C / +110°C
Pressure	45 MPa
Speed	0.5 m/s



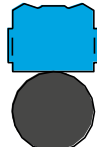
PD11

Materials	NBR + PU + POM
Temperature	-30°C / +100°C
Pressure	50 MPa
Speed	0.5 m/s



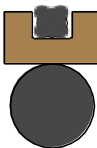
PD01

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	5 m/s



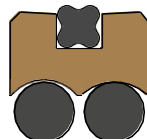
PD02

Materials	PU + NBR
Temperature	-30°C / +100°C
Pressure	25 MPa
Speed	0.5 m/s



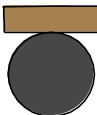
PD03

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	2 m/s



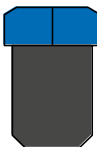
PD04

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	2 m/s



PD05

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	50 MPa
Speed	2 m/s



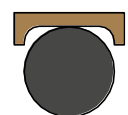
PD06

Materials	PU + NBR
Temperature	-30°C / +100°C
Pressure	40 MPa
Speed	0.5 m/s



PD07

Materials	PU + NBR
Temperature	-30°C / +100°C
Pressure	40 MPa
Speed	0.5 m/s



PD08

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	35 MPa
Speed	5 m/s



PD15

Materials	PTFE + NBR + POM
Temperature	-30°C / +100°C
Pressure	50 MPa
Speed	1.5 m/s

Rod Wipers



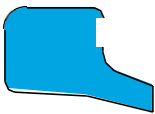
WS01

Materials	Elastomer
Temperature	-30°C / +200°C
Speed	1 m/s



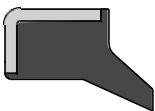
WS02

Materials	Elastomer
Temperature	-30°C / +200°C
Speed	1 m/s



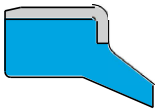
WS03

Materials	PU
Temperature	-30°C / +110°C
Speed	1 m/s



WS05

Materials	NBR + Steel
Temperature	-30°C / +100°C
Speed	1 m/s



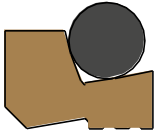
WS06

Materials	PU + Steel
Temperature	-30°C / +110°C
Speed	1 m/s



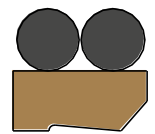
WS07

Materials	PU + Steel
Temperature	-30°C / +110°C
Speed	1 m/s



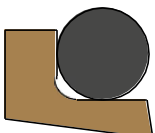
WS09

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Speed	5 m/s



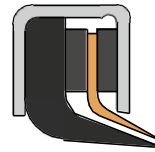
WS10

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Speed	5 m/s



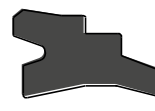
WS11

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Speed	5 m/s



WS12

Materials	NBR + Steel + Brass
Temperature	-40°C / +100°C
Speed	1 m/s



WD01

Materials	Elastomer
Temperature	-30°C / +200°C
Speed	1 m/s



WD02

Materials	PU
Temperature	-30°C / +110°C
Speed	1 m/s



WD04

Materials	PU + Steel
Temperature	-30°C / +110°C
Speed	1 m/s



WEAR RINGS / GUIDING COMPONENTS

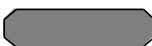
The wear rings and the guide strips are used to resist deformation under radial load by guiding the piston (Type - PWR) and the rod (Type - RWR) in the system, otherwise the effects of metal on metal contact between the different components can lead to a complete deterioration of the system.

Wear / Guide Rings

	Polyester Fabric + Resin	
	Ultimate Load	330 MPa
	Temperature	-40°C / +130°C
	Speed	1 m/s

	Poly-Amide (PA)	
	Ultimate Load	75 MPa
	Temperature	-40°C / +130°C
	Speed	1 m/s

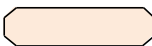
	Cotton Fabric + Resin	
	Ultimate Load	270 MPa
	Temperature	-40°C / +120°C
	Speed	1 m/s

	Poly-Oxy Methylene (POM)	
	Ultimate Load	40 MPa
	Temperature	-40°C / +110°C
	Speed	1 m/s

	Synthetic Fabric + Resin	
	Ultimate Load	355 MPa
	Temperature	-40°C / +130°C
	Speed	1 m/s

	PEEK	
	Ultimate Load	75 MPa
	Temperature	-70°C / +250°C
	Speed	1 m/s

	U.H.M.W.P.E	
	Ultimate Load	25 MPa
	Temperature	-20°C / +90°C
	Speed	1 m/s

	H.D.P.E	
	Ultimate Load	30 MPa
	Temperature	-50°C / +80°C
	Speed	1 m/s

Guide strips

	Bronze Filled PTFE	
	Ultimate Load	Bronze Filled PTFE
	Temperature	-60°C / +150°C
	Speed	15 m/s

	Carbon Filled PTFE	
	Ultimate Load	Carbon Filled PTFE
	Temperature	-60°C / +200°C
	Speed	15 m/s



STATIC SEALS

The static seals are used for applications where relative movement does not exist. O-Rings and square seals (or washers) sometimes combined with back-up rings are used where increased pressures are involved. We also offer a complete range of dual seals, flange seals (in line with standard SAE J518), fluid connector seals, Bonded seals and facial effect seals.

	DUS	
	Materials	PU
	Temperature	-30°C / +110°C
	Pressure	50 MPa
	Speed	0,5 m/s

	FLG	
	Materials	Elastomer
	Temperature	-25°C / +200°C
	Pressure	60 MPa

	SQG	
	Materials	Elastomer
	Temperature	-30°C / +200°C
	Pressure	54 MPa

	ORG	
	Materials	Elastomer / PU / Metal / Encapsul
	Temperature	-30°C / +200°C
	Pressure	20 MPa

	BKU / BKC	
	Materials	PTFE / PA
	Temperature	-30°C / +200°C
	Pressure	40 MPa

	BCU	
	Materials	PTFE / NBR / FKM
	Temperature	-200°C / +260°C
	Pressure	< 25 MPa static < 20 MPa reciprocating
	Speed	2 m/s reciprocating

	QDG	
	Materials	Elastomer
	Temperature	-30°C / +110°C
	Pressure	40 MPa

	BNS1	
	Materials	Elastomer + Steel
	Temperature	-45°C / +150°C
	Breaking resistance	540 MPa

	BNS2	
	Materials	Elastomer + Steel
	Temperature	-45°C / +150°C
	Breaking resistance	540 MPa

	AEI	
	Materials	PTFE + STL steel
	Temperature	-200°C / +260°C
	Pressure	30 MPa
	Speed	15 m/s

	AEO	
	Materials	PTFE + STL steel
	Temperature	-200°C / +260°C
	Pressure	30 MPa
	Speed	15 m/s

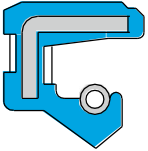
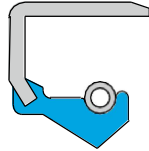
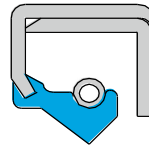
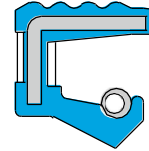
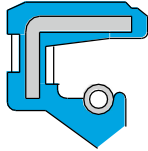
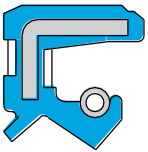
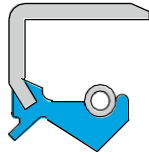
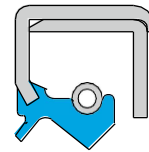
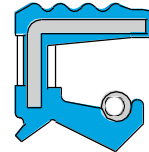
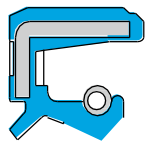
	BKS	
	Materials	PTFE
	Temperature	-200°C / +260°C
	Pressure	< 250 MPa static < 40 MPa reciprocating
	Speed	2 m/s reciprocating



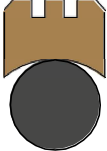
ROTARY SEALS

These are mainly used as a seal to maintain fluids (oils, greases) in the rotating system. We have a complete range of rotary seals - shaft seals, cassette seals, combi seals, Floating seals, V-Rings, Gamma seals ensuring the sealing of rotating shafts.

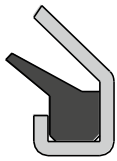
Standard Shaft Seals

				
SA	SB	SC	SAW	SAP
				
SAS	SBS	SCS	SASW	SASP

Roto Seals

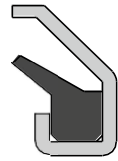
	SRP	
	Materials	PTFE + Elastomer
	Temperature	-30°C / +200°C
	Pressure	30 MPa
	Speed	2 m/s
	SPP	
	Materials	PTFE + Elastomer
	Temperature	-30°C / +200°C
	Pressure	30 MPa
	Speed	2 m/s

Gamma Seals



SG1

Materials	Elastomer + Steel
Temperature	-30°C / +200°C
Speed	20 m/s



SG2

Materials	Elastomer + Steel
Temperature	-30°C / +200°C
Speed	20 m/s

V-Rings



SVA

Materials	Elastomer
Temperature	-30°C / +200°C
Speed	10 m/s



SVS

Materials	Elastomer
Temperature	-30°C / +200°C
Speed	10 m/s



SVE

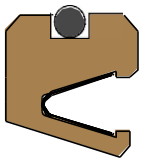
Materials	Elastomer
Temperature	-30°C / +200°C
Speed	10 m/s



SVM

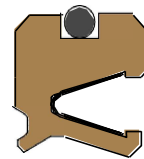
Materials	Elastomer
Temperature	-30°C / +200°C
Speed	10 m/s

PTFE Shaft Seals



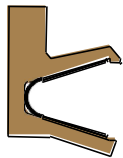
SSE

Materials	PTFE + STL steel + Elastomer
Temperature	-30°C / +200°C
Pressure	1 MPa
Speed	15 m/s



SDE

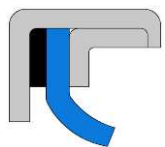
Materials	PTFE + STL steel + Elastomer
Temperature	-30°C / +200°C
Pressure	1 MPa
Speed	15 m/s



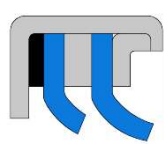
SFE

Materials	PTFE+ STL steel
Temperature	-100°C / +260°C
Pressure	15 MPa dynamic 25 MPa static
Speed	15 m/s

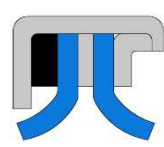
Shaft Seals with PTFE Sealing Lips



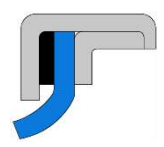
SL1



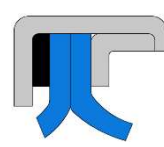
SL2



SL3

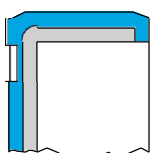


SL4

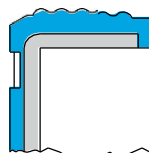


SL5

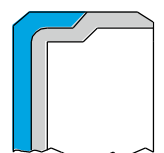
End Covers



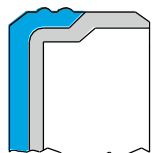
EC1



EC2



EC3

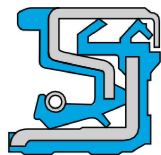
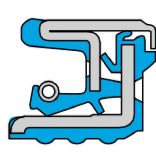
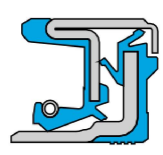
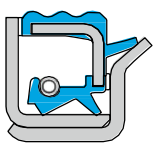
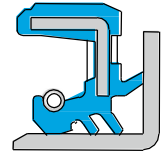
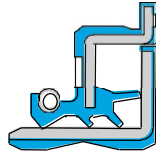
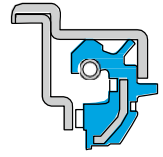
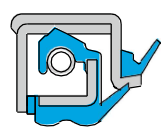


EC4



CASSETTE SEALS

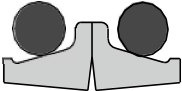
The cassette seals are generally made up of a sleeve, sealing lip with a spring and several anti-dust lips integrated into a labyrinth system to protect against external pollution, and are distinguished by greater system reliability and longevity. Furthermore, their friction surface, which has been adjusted and finished beforehand, does not require any shaft maintenance during replacement.

**CAS01****CAS02****CAS03****CAS04****CAS05****CAS06****CAS07****CAS08****CAS09****CAS10****CAS11****CAS12****CAS13**



MECHANICAL FACE SEALS

The mechanical face seals or floating seals are characterized by two identical metal friction rings mounted one on top of the other and centered in their groove by two rubber components that exercise a uniform axial pressure between the seal and the housing. The first metal ring remains static in its housing while the other, in rotation, ensures the sealing by creating friction between the two components in contact.

	SMO	
	Materials	Steel/Cast iron + Elastomer
	Temperature	-60 °C / +180 °C
	Pressure	0.15 MPa in Steel in dynamic 0.30 MPa in Cast iron in dynamic 0.50 MPa static
	Speed	2.2 m/s in Steel 3.0 m/s in 15CrMoNi Cast iron 10.0 m/s in Durinit Cast iron

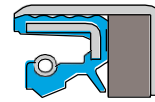
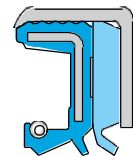
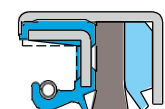
	SMF	
	Materials	Steel/Cast iron + Elastomer
	Temperature	-60 °C / +180 °C
	Pressure	0.15 MPa in Steel in dynamic 0.30 MPa in Cast iron in dynamic 0.50 MPa static
	Speed	2.2 m/s in Steel 3.0 m/s in 15CrMoNi Cast iron 10.0 m/s in Durinit Cast iron





ROTARY COMBI SEALS

The rotary combi seals, inseparable entities linked by metal frames, composed of standard shaft seal rings and polyurethane anti-pollution deflectors, are particularly valued for their great ability to form an anti-pollution barrier. This polyurethane part, whose material and design forms a barrier against external impurities, makes the combi seal highly reliable.

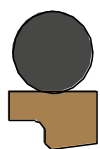
**COMB1****COMB2****COMB3****COMB4****COMB5****COMB6**



PNEUMATIC SEALS

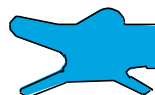
The pneumatic seals are mainly used to contain fluids such as compressed air and gas. To make pneumatic seals, materials with advanced properties are used, which offer the best compromise between friction loads, the type of fluids and the effects of temperature and pressure.

Rod seals



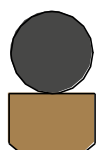
PRS1

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	1.6 MPa
Speed	5 m/s



PRS4

Materials	PU
Temperature	-30°C / +110°C
Pressure	1.6 MPa
Speed	1 m/s



PRS2

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	1.6 MPa
Speed	5 m/s



PRS5

Materials	Elastomer
Temperature	-30°C / +150°C
Pressure	1.6 MPa
Speed	1 m/s



PRS3

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	1.6 MPa
Speed	5 m/s



PRS6

Materials	PU / NBR / FKM
Temperature	-30°C / +200°C
Pressure	1.6 MPa
Speed	1 m/s

Guide strips



Bronze Filled PTFE

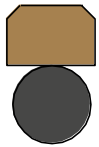
Ultimate Load	Bronze Filled PTFE
Temperature	-60°C / +150°C
Speed	15 m/s



Carbon Filled PTFE

Ultimate Load	Carbon Filled PTFE
Temperature	-60°C / +200°C
Speed	15 m/s

Piston Seals



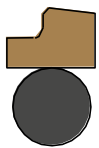
PPS1

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	1.6 MPa
Speed	5 m/s



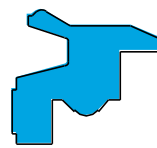
PPS5

Materials	PU
Temperature	-30°C / +110°C
Pressure	1.6 MPa
Speed	1 m/s



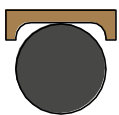
PPS2

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	1.6 MPa
Speed	5 m/s



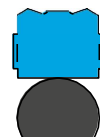
PPS6

Materials	PU
Temperature	-30°C / +110°C
Pressure	1.6 MPa
Speed	1 m/s



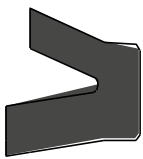
PPS3

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Pressure	1.6 MPa
Speed	5 m/s



PPS7

Materials	PU + NBR
Temperature	-30°C / +100°C
Pressure	1.6 MPa
Speed	1 m/s



PPS4

Materials	Elastomer
Temperature	-30°C / +150°C
Pressure	1.6 MPa
Speed	1 m/s



PPS8

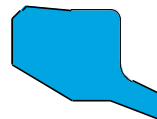
Materials	NBR + Steel
Temperature	-30°C / +100°C
Pressure	1.6 MPa
Speed	1 m/s

Wipers



PWP1

Materials	Elastomer
Temperature	-30°C / +150°C
Speed	1 m/s



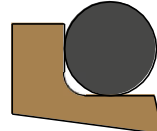
PWP4

Materials	PU
Temperature	-30°C / +110°C
Speed	1 m/s



PWP2

Materials	PU
Temperature	-30°C / +110°C
Speed	1 m/s



PWP5

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Speed	5 m/s



PWP3

Materials	Elastomer / PU
Temperature	-30°C / +150°C
Speed	1 m/s



PWP6

Materials	PTFE + Elastomer
Temperature	-30°C / +200°C
Speed	5 m/s

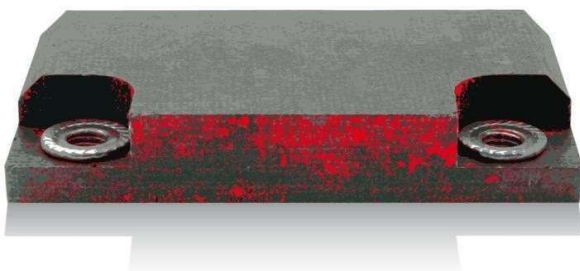


COMPOSITE BUSHES & PADS

Composite bushes (or composite bushings) are advanced, self-lubricating plain bearings engineered by combining high-strength fibres (such as glass, aramid, or carbon) with advanced polymer resins like PTFE. They eliminate the need for external grease, eliminate galvanic corrosion, and provide exceptional load-carrying capacity with minimal wear.

Material Advantages :

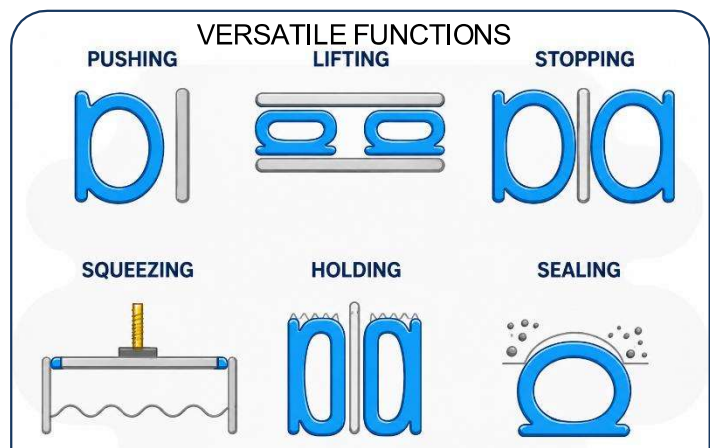
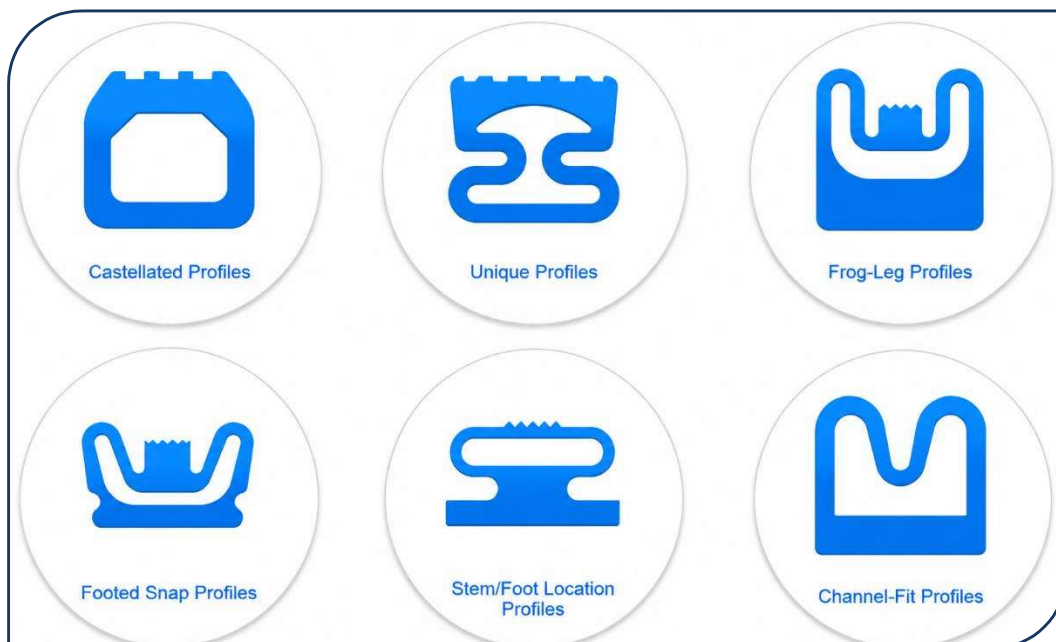
1. These material grade bushes can operate dry / grease / oil / water lubricated.
2. These can be freeze fitted into other components.
3. These have very high load bearing capability and a very low swell.
4. These bushes / pads have low wear characteristics, thus long life.
5. These bushes / pads can be supplied with metal / hardware.





INFLATTABLE SEALS

Inflatable seals are designed to seal a gap after being inflated. The gasket is flat shaped, with a rubber flange to facilitate fixation. During inflation, the flat gasket expands to a larger thickness and the sides will deform into a circular shape. The gasket is provided with ridges on the upper and lower contact area to improve sealing capacity. The gasket can be inflated both with air and water.



TRELLEX MATERIAL CAPABILITIES

SI No	TRELLEX Material Code	Material Grade's General Name
1	NBR 70	Nitrile Butadiene Rubber (NBR) 70 Shore A
2	NBR 75	Nitrile Butadiene Rubber (NBR) 75 Shore A
3	NBR 90	Nitrile Butadiene Rubber (NBR) 90 Shore A
4	HNBR 70	Hydrogenated Nitrile Rubber (HNBR) 70 Shore A
5	HNBR 75	Hydrogenated Nitrile Rubber (HNBR) 75 Shore A
6	HNBR 90	Hydrogenated Nitrile Rubber (HNBR) 90 Shore A
7	FKM 75	Fluorocarbon Rubber (FKM / Viton) 75 Shore A
8	FKM 90	Fluorocarbon Rubber (FKM / Viton) 90 Shore A
9	FFKM 70	Per-fluoro-elastomer (FFKM) 70 Shore A
10	FFKM 90	Per-fluoro-elastomer (FFKM) 90 Shore A
11	EPDM 70	Ethylene Propylene Diene Monomer (EPDM) 70 Shore A
12	EPDM 90	Ethylene Propylene Diene Monomer (EPDM) 90 Shore A
13	VMQ 70	Silicone Rubber (VMQ) 70 Shore A
14	VMQ 90	Silicone Rubber (VMQ) 90 Shore A
15	ACM 70	Polyacrylate Rubber (ACM) 70 Shore A
16	CR 70	Chloroprene Rubber (Neoprene) 70 Shore A
17	PU 93A	Polyurethane (PU) 93 Shore A
18	PU 58D	Polyurethane (PU) 58 Shore D
19	PTFE	Virgin Poly tetra fluoro ethylene (PTFE)
20	BFP	Bronze Filled PTFE
21	CFP	Carbon Filled PTFE
22	GLFP	Glass Filled PTFE
23	GRFP	Graphite Filled PTFE
24	MFP	Molybdenum Disulfide (MoS ₂) Filled PTFE
25	POM	Polyoxymethylene (Acetal / Delrin)
26	PEEK	Polyether Ether Ketone (PEEK)
27	HDPE	High Density Poly-Ethylene
28	UHMWPE	Ultra High Molecular Weight Polyethylene
29	PA6	Polyamide 6 (Nylon)
30	PA66	Polyamide 66 (Nylon 66)
31	PFRPR	Polyester Fabric Reinforced Phenolic Resin
32	CFRPR	Cotton Fabric Reinforced Phenolic Resin
33	SFRPR	Synthetic Fabric Reinforced Phenolic Resin
34	NBR FR	Fabric Reinforced NBR
35	FKM FR	Fabric Reinforced FKM
36	GFN	Glass filled nylon
37	PU 90	Polyurethane (PU) 90 Shore A



MATERIAL STORAGE GUIDELINES

During storage, the properties of elastomer products can be damaged either by chemical reactions or by physical processes. Chemical reactions are basically caused by the influence of heat, light, oxygen, ozone or contamination by chemicals. The physical processes, which are called physical ageing, are either due to the influence of external stresses leading to cracks and permanent deformation, or due to the migration of plasticizers, which makes the material more brittle and can lead to deformation of the parts.

Therefore, elastomer products only maintain their characteristics for several years without major changes, if they are properly stored. The ageing behaviour of elastomer products and their reaction on storage conditions depend considerably on their chemical structure. Unsaturated elastomers (e.g. nitrile rubber) age more quickly under improper storage conditions than saturated elastomers (e.g. fluorocarbon rubber).

Elastomer products should be stored in accordance with the following recommendations, which are in line with the recommendations provided in ISO 2230:2002 or DIN 7716:1982.

Rubber and plastic products should be stored in a cool and dry room. The relative humidity should be < 65%. Storage temperature should be around 15 °C and not exceed 25 °C. If the storage temperature is below 15 °C, care should be taken during handling of stored products because they may have stiffened. They should be warmed up slowly at ambient temperature.

The storage room must not contain any ozone-producing devices, such as electric motors or high-voltage devices.

Rubber and plastic products should not be exposed to direct sunlight or artificial light with a high UV content (bulbs are preferred to neon lamps).

Rubber products should not be exposed to drafts. They should be stored in airtight packaging. The package material must not contain plasticizers. Polyethylene is the most suitable package material. Contact between rubber products of different compositions should be avoided.

Contact between rubber and plastic products and chemicals or dangerous metals (e.g. copper, manganese) should be avoided.

Rubber and plastic products should be stored as tension-free as possible, i.e. the parts should not be subject to tension, pressure or bending. Rubber products, especially seals, must not be hung on nails or tightly folded or rolled for reasons of space.

Shelf life

When stored under the conditions mentioned above, elastomer products retain their typical properties for several years.

The typical shelf life may be prolonged based on the actual product conditions at the end of the typical shelf life. Trained and experienced experts can approve a prolonged storage period based on a visual inspection of representative samples. The samples should not reveal any permanent distortion, mechanical damage or surface cracking. The material should not show any signs of hardening or softening nor any kind of tackiness.



OUR QUALITY POLICY

- Deliver world-class services and engineering excellence that consistently surpass customer expectations in quality, reliability, and innovation.
- Achieve maximum customer satisfaction through precision execution, on-time project delivery, and cost-efficient solutions.
- Maintain uncompromising standards of professionalism, safety, efficiency, and operational excellence in every project undertaken.
- Empower a highly qualified, skilled, trained, and motivated workforce dedicated to continuous learning and superior performance.
- Foster a culture of continuous improvement, technological advancement, and sustainable business growth.
- Build long-term client relationships founded on trust, integrity, transparency, and exceptional service delivery.



#Sealing Navigator

Quality & Expertise for your Sealing Needs

An ISO 9001 : 2015 Certified Company



info@trellex.in



+91 80887 73375



www.trellex.in

**#69, 2nd Cross, Nelagadaranahalli Circle, Nagasandra Post,
Bengaluru, Karnataka – 560073.**