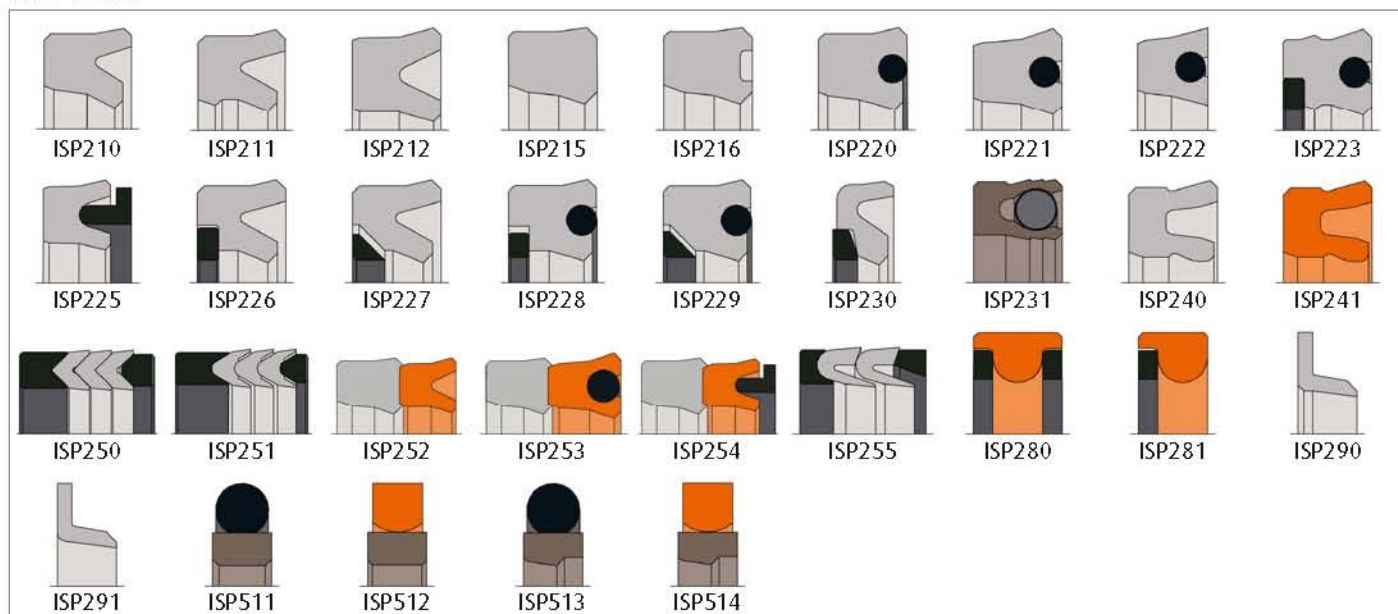




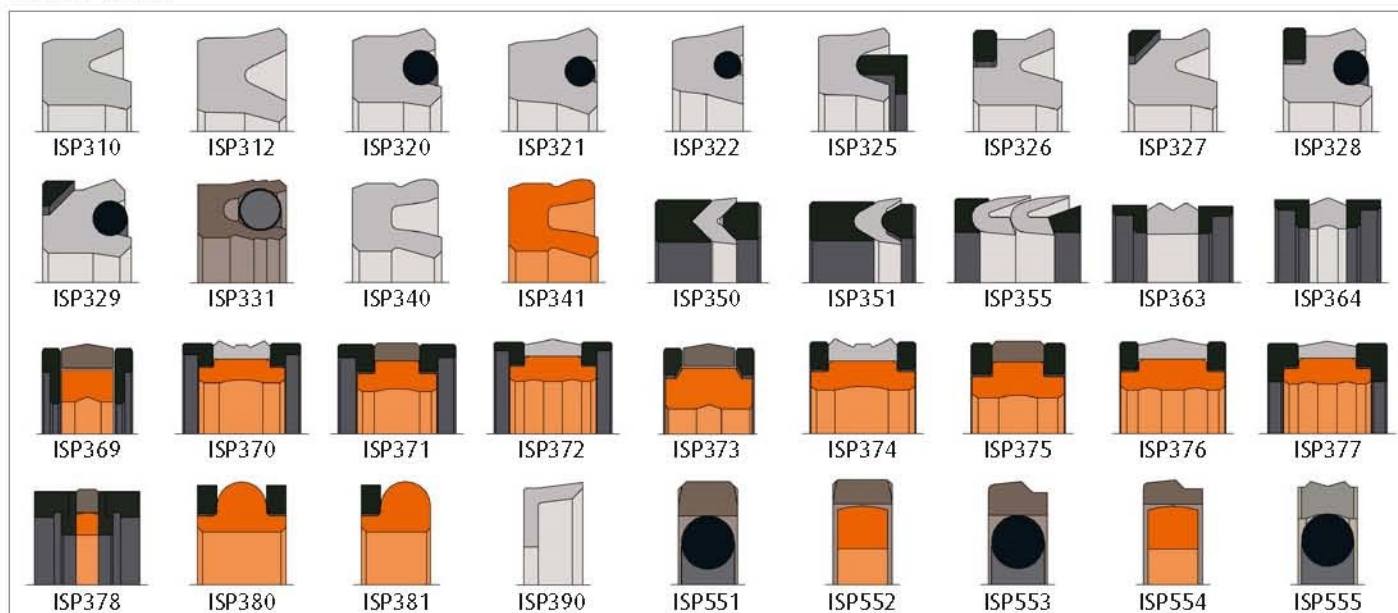
**Seals for demanding applications in the industry**



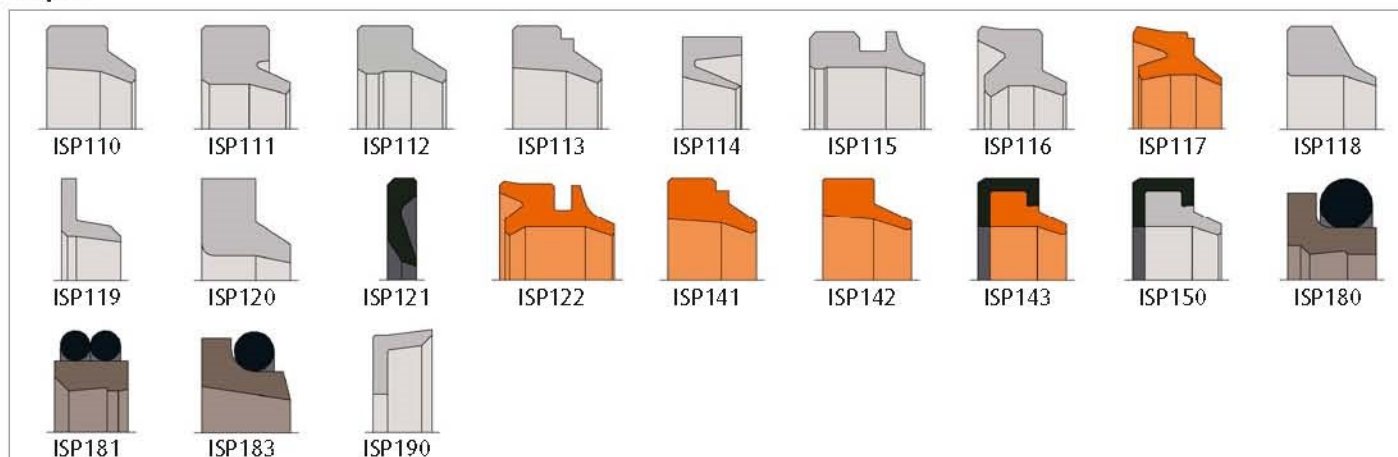
## Rod Seals



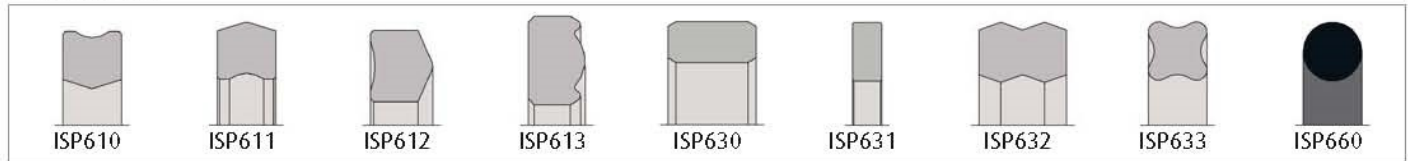
## Piston Seals



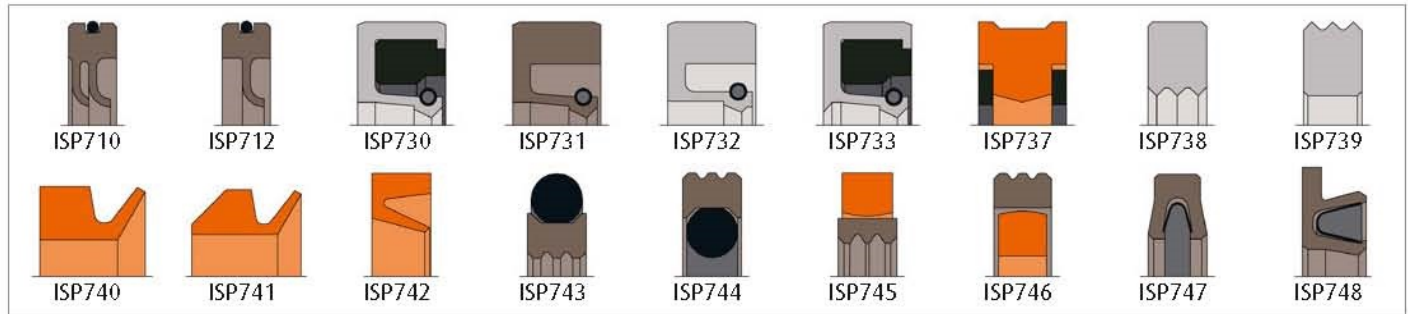
## Wiper



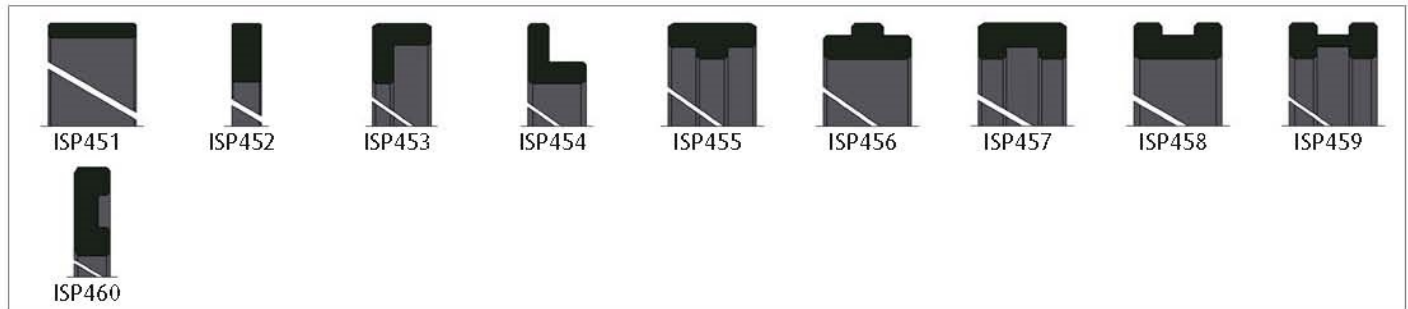
## Static Seals



## Rotary Seals



## Guide Rings



## Back Rings



### Seals

- Development of sealing solutions
- Seal kits
- Rotary shaft seals
- Precision O-Rings

### Large scale seals

### Express service

- for standard as well as for customized seals
- for large seals
- 24 h / weekend

### Cylinder repair /-upgrade

### Plastic Parts

Do you need large scale seals with non-standard dimensions and/or profiles – ideally immediately?

**We have almost no restrictions – and if it is necessary, we also deliver within 24 hours, even at the weekend!**



# COMMONLY USED MATERIALS

- EXCERPT



Our premium polyurethane materials **ISM10** in 95° Shore A and **ISM11** in 85° Shore A with highly efficient immanent lubrication are available short term up to a diameter of 2m.

The more flexible Material ISM11 with a degree of 85% Shore A is particularly suitable for damaged surfaces, for applications with low pressure (pneumatic) or e.g. for an easier assembly of small seals.

Breakaway force as well as the coefficient of friction/sliding force are tremendously improved by means of an exclusive, highly efficient lubricant in our premium polyurethane materials ISM10 and ISM11, this including even dry running capabilities. Lifetime extension and longer operating hours are achieved by a significant reduction of wear by our materials.

Our materials are proved under harshest conditions and are available with approvals of common standards such as KTW, FDA, 3A-sanitary.

IST Code	Description	Color	Shore	min. temp. C°	max. temp. C°
ISM 10	<b>Premium IST material</b> with highly efficient internal lubrication	grey	95 Shore A	-30	110
ISM 11	<b>Premium IST material</b> with highly efficient internal lubrication	orange	85 Shore A	-40	100
ISM 12	<b>High temperature IST material</b> with highly efficient internal lubrication	dark orange	95 Shore A	-30	135
ISM 13	<b>Low temperature IST material</b> with highly efficient internal lubrication	dark blue	95 Shore A	-50	105
ISM 20	HPU 95 standard	red	95 Shore A	-30	110
ISM 21	HPU low temperature	blue	95 Shore A	-50	105
ISM 22	HPU FDA	white	95 Shore A	-40	100
ISM 23	HPU 57 Shore D	dark red	57 Shore D	-25	110
ISM 24	PU 95	dark green	94 Shore A	-30	110
ISM 25	HPU 85 Shore A	light green	85 Shore A	-40	95
ISM 26	HPU high temperature	beige	95 Shore A	-30	125
ISM 30	NBR 85 standard	black	85 Shore A	-35	100
ISM 31	NBR 90	black	90 Shore A	-30	110
ISM 32	NBR FDA	white	88 Shore A	-30	105
ISM 33	NBR low temperature	black	82 Shore A	-45	90
ISM 35	H-NBR standard FDA	green	82 Shore A	-30	150
ISM 36	H-NBR 95	black	95 Shore A	-20	150
ISM 38	EPDM standard	black	88 Shore A	-40	130
ISM 39	EPDM FDA	white	87 Shore A	-40	130
ISM 40	FPM standard FDA	brown	85 Shore A	-25	220
ISM 45	AFLAS®	black	85 Shore A	-10	220
ISM 50	PTFE rein (FDA material, EN1934/2004)	white	55 Shore D	-200	260
ISM 51	PTFE 10% Wollastonite (FDA material, EN 1935/2004)	white	55 Shore D	-200	260
ISM 52	PTFE 40% bronze	brown	60 Shore D	-200	260
ISM 53	PTFE 60% bronze	brown	60 Shore D	-200	260
ISM 54	PTFE 15% carbon	grey/black	62 Shore D	-200	260
ISM 55	PTFE 25% carbon	black	62 Shore D	-200	260
ISM 56	PTFE 15% glass fiber & 5% MOS	grey	58 Shore D	-200	260
ISM 57	PTFE 10% Polyimid	yellow brown	58 Shore D	-200	260
ISM 60	POM (FDA material, EN1934/2004)	white	85 Shore D	-50	90
ISM 65	Nylon with MOS <sub>2</sub>	black	85 Shore D	-40	110
ISM 66	Nylon	beige	85 Shore D	-40	110
ISM 70	MVQ Silicone FDA	white	84 Shore A	-50	210
ISM 71	MVQ Silicone FDA	blau	84 Shore A	-50	210
ISM 80	PEEK nature (FDA Material, EN1934/2004)	beige		-65	240
ISM 85	PE-UHMW (FDA Material, EN1934/2004)	white	63 Shore D	-200	60