

MATERIALS DESCRIPTION AND PROPERTIES

UP - ULTRA PERFORMANCE (violet)

- Pressure: 1000 bar
- Temp: -50C to +120C
- Low friction, low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

SR - SUPER RED (purple)

- Pressure: 1000 bar
- Temp: -50C to +120C
- Low friction, low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

EGRIN (green)

- Pressure: 400 bar
- Temp: -50C to +110C
- Low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

ROT 95 (red)

- Pressure: 400 bar
- Temp: -50C to +120C
- Low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

WIFF 60 (blue)

- Pressure: 400 bar
- Temp: -50C to +120C
- Low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, and HFB hydraulic fluids

MOTUF 73 (dark blue)

- Pressure: 400 bar
- Temp: -50C to +120C
- Low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, and HFB hydraulic fluids

MONYT (grey/black)

- Pressure: 1000 bar
- Temp: -50C to +120C
- Low friction, low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

NBR - Nitrile Butadiene Rubber (black)

- Pressure: 160 bar
- Temp: -30C to +100C
- Good mechanical resistance and sealing properties.
- Unsuitable for brake fluids or aromatic compounds.

HNBR - Hydrogenate Butadiene Rubber (black)

- Hardness: 85 ± 5 Shore A
- Temp: -35C to +150C
- Good mechanical resistance. Suitable for fuels, oils, greases, and fats.

EPDM (black)

- Ethylene Propylene (black)
- Pressure: 160 bar
- Temp: -50C to +130C
- Good resistance to hot water, vapour, alkaline solutions, hydraulic fluids without mineral oil, atmospheric corrosion, ozone, and aging.

NEO - Neoprene (black)

- Hardness: 85 ± 5 Shore A
- Temperature: -50C to +100C
- High performance urethane resistant to ammonia

VITON - Fluoro Rubber (brown)

- Pressure: 160 bar
- Temp: -20C to +200C
- Resistance to hostile environments such as oil and harsh chemicals. Not compatible with anhydrous ammonia, soda and potassium lyes, ketones, ether, dioxin, certain amines, and organic acids.

POLYSTONE 7000 – UHMWPE (white)

- Temp: -250C to +80C
- Hardness: 61 Rockwell M
- Weatherproof, with excellent impact strength and abrasion resistance. Compatible with corrosive chemicals and food.

SIL - Silicon (white)

- Food grade material
- Temp: -60C to +200C

PTFE - Polytetrafluoroethylene (white)

- Temp: -200C to +260C
- Excellent resistance to most compounds, even at high temperatures and pressures. Self lubricating. Cold flows at low loading

TMCF Carbon Fibre Filled PTFE (dark grey)

- Hardness: 60-65 Shore D
- Temp: -260C to +260C
- Longer wear life and good thermal conductivity allows dynamic applications at high speeds, such as seal rings, piston rings, and compressor rings

25% Glass Filled PTFE (white)

- Hardness: 59-65 Shore D
- Temp: -260C to +260C
- Ideal for high load bearing applications such as bearings and bearing pads, piston rings, valve seats, valve plugs, and gaskets.

Tetron B - Bronze Filled PTFE (dark orange)

- Hardness: 67 Rockwell M
- Temp: -260C to +260C
- Bronze filled for good creep resistance

Tetron C – Carbon Graphite Filled PTFE (dark grey)

- Hardness: 68 Rockwell M
- Temp: -260C to +260C
- Carbon graphite filled for improved creep resistance and thermal conductivity

Nylon 6PLA (black)

- Hardness: 88 Rockwell M
- Temp: +105C
- Good mechanical strength, fatigue resistance, sliding properties, and wear resistance.

Acetal – POM (white)

- Hardness: 84 Rockwell M
- Temp: +115C
- High mechanical strength and very low stick slip. Ideal for food and medical applications.

Ketron PEEK 1000 – Polyetheretherketone (cream)

- Hardness: 105 Rockwell M
- Temp: +250C
- A food grade material that has excellent mechanical properties, temperature resistance, and chemical resistance.

Ketron PEEK HPV and CA30 (dark grey)

- Hardness: 85 (HPV) and 102 (CA30) Rockwell M
- Temp: +250C
- The addition of carbon fibre and PTFE (HPV) provides low friction, long wear, and high thermal conductivity properties. Ideal for bearings.



MHS SEALS
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profile chart



GS GLAND SEALS												
	GS01	GS01P	GS01R	GS02	GS02SB	GS03	GS04	GS04SB	GS06	GS06M	GS06MP	
	GS06P	GS06PA	GS07	GS07B	GS08	GS08B	GS08OJ	GS08OJBU	GS09	GS09C	GS09D	GS09DS
	GS09S	GS09SC	GS09SSE	GS10-12	GS10-12A	GS10-12B	GS10-12C	GS10-12R	GS10-12T	GS10-12W	GS13-15	GS16
	GS16P	GS17	GS18	GS19	GS19H	GS20	GS21	GS22	GS23	GS25-27	GS29-31	GS32
	GS33	GS37	GS38	GS39	GSHAT	GSHATC	GSSP					

BP BEARING PROTECTION												
	BP01	BP02	BP03	BP03A	BP03F	BP03LN	BP03M	BP04	BP05	BP05LN	BP06	
	BP06A	BP06E	BP06L	BP07	BP07S	BP08	BP09	BP10	BP11	BP12	BP13	BP14
	BP15	BP16	BP16F	BP17	BP17A	BPAD1	BPAD2	BP18	BP19	BP93	BP94	BP95
	BP96R	BP96L	BP98	BP99	BP99B							

IB IN-HOUSE BASKET												
	IBK01R	IBK06PAB	IBK06PR	IBK06PREX	IBK06PRR	IBK07BB	IBK07BPR	IBK07BPRES	IBS06PAB	IBS06PR	IBS06PRR	
	IBS6PREX	IBS07BB	IBS07BPR	IBS07BPRES	IBSIMF	IBSIMFS	IBSIPK	IBSIPR	IBSIPR-C	IBSIRP-E	IBSIPR-P	IBSIPR-U

GF GUIDE RINGS											
	GF01	GF02	GF03	GF04	GF05	GF06	GF07	GF08	GF09	GF10	GF11
		BST BACKUP RINGS									
	GF12	BST	BST08	BST09	BST10	BST11	BST12	BST13	BST14	BST15	BST16

HR HIGH PRESSURE ROTARY SEALS											
	HR00	HR01	HR01RM	HR03	HR03E	HR03PM	HR03R	HR04	HR04E	HR05	HR05E
	HR09	HR10	HR14	HR15	HR16	HR16M	HR16Q	HR17	HR18		

PK PISTON SEALS												
	PK01	PK01P	PK02	PK02SB	PK03	PK04	PK04SB	PK06	PK06CP	PK06M	PK06PA	
	PK07	PK07B	PK08	PK08BU	PK08C	PK08LY	PK08OBU	PK08OJ	PK08S	PK08SC	PK08SE	PK08SSE
	PK09	PK09C	PK10-12	PK13-15	PK16	PK16B	PK16C	PK17	PK17P	PK17PB	PK18	PK19
	PK19H	PK20	PK21	PK22	PK22TW	PK23	PK23C	PK23CB	PK24	PK37	PK56	PK56B
	PK58	PKAQ	PKAQ10	PKAQ20	PKCUP	PKCUPC	PKDA	PKDAS	PKSP			

PA PNEUMATIC SEALS												
	PA01	PAA4	PAA5	PAA6	PAD1	PAD2	PAF2	PAK1	PAK2	PAK3	PAK5	
	PAK7	PAK8	PAK9	PAK10	PAK11	PAK34	PAK35	PAK36	PAS1	PAS2	PAS3	PAS4
	PAS5	PAS6	PAS7	PAS8	PAS9	PAS11	PAS34	PAS35	PAS36	PAV1	PAV2	

WA WIPER SEALS												
	WA01	WA01F	WA01P	WA01T	WA02	WA02CP	WA02F	WA02P	WA02S	WA03	WA03P	
	WA07	WA07D	WA08	WA08PB	WA09	WA10	WA11	WA12	WA13	WA13Y	WA13Z	WA14
	WA15	WA16	WA75	WAC	WACA	WAXD	WAXS					

PR DOPPEL RING SEALS											
	PRCR	PRCRBU	PRCRBULL	PRCRS	PRKCR	PRKJS	PRKOJ	PRMF	PRMFS	PRMG	PRMGS
	PROCR	PROJA	PROJBULL								

SP SPECIAL SEALS												
	SP01	SP02	SP03	SP04	SP05	SP06	SP07	SP11	SP12	SP13	SP14	
	SP15	SP16	SP17	SP18	SP19	SP20	SP21	SP22	SP23	SP24	SP25	SP26
			QA QUATRO SEALS									
	SP27	SP28	QA	QA-C	QA-E	QA-P	QA-U					