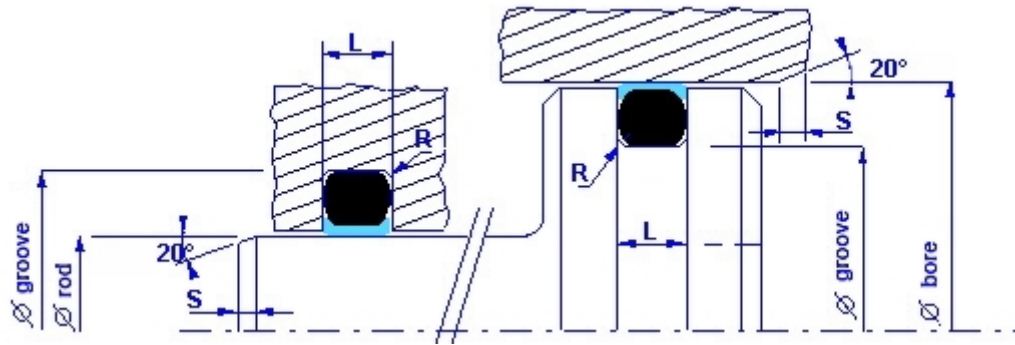


Slipper ptfе Composite seals |UltraLight Slipper



Slipper composite seals, ultra light for piston and rod application

Little encumbrance Slipper composite seals to fit O-Ring grooves

Groove dimensions could match with your pre-existent grooves (subject to approval)

fit in O-Rings grooves

static and dynamic applications (dynamic only in non demanding applications)

extrusion resistance

low friction

low wear

closed grooves

high temperature withstanding

allows the dynamic use of rubber compounds

originally suitable for static applications only



SEAT

Slipper Ultra Light - Piston sealing: Standard Groove Dimensions

Housing Class	O-Ring cross section	A bore diameter		F groove diameter	L groove	R	S min	G* max. radial gap
		suggested range	possible range					
		H7						
ULP1	1,78	8-13	8-100	A - 2,9	2,4	0,4	1,2	0,15
ULP2	2,62	15-24	15-250	A - 4,5	3,6	0,6	2,2	0,2
ULP3	3,53	25-45	20-400	A - 6,2	4,8	0,8	2,6	0,2
ULP4	5,33	46-120	30-400	A - 9,4	7,1	1	5,6	0,25
ULP5	6,99	121-400	121-400	A - 12,2	9,5	1,5	8,2	0,3

Coding example

profile code: UltraLight
bore 100
housing class ULP4
materials: Neuflon 031 O-Ring NBR

Slipper UltraLight 100 ULP4 N-031 NBR

Slipper Ultra Light - Rod sealing: Standard Groove Dimensions

Housing Class	O-Ring cross section	A rod diameter		F groove diameter	L groove	R	S min	G* max. radial gap
		suggested range	possible range					
		f7						
ULC1	1,78	4-8	4-100	A + 2,9	2,4	0,4	1,2	0,15
ULC2	2,62	9-18	8-250	A + 4,5	3,6	0,6	2,2	0,2
ULC3	3,53	19-36	10-400	A + 6,2	4,8	0,8	2,6	0,2
ULC4	5,33	37-115	38-400	A + 9,4	7,1	1	5,6	0,25
ULC5	6,99	116-400	116-400	A + 12,2	9,5	1,5	8,2	0,3

Coding example

profile code UltraLight
rod 50
housing class ULC4
materials: Neuflon 031 O-Ring NBR

Slipper UltraLight 050 ULC4 N-031 NBR

MATERIALS

Click compound's code to download the .PDF data sheet. Registration required.

HD Slippers code	Composition	Color	Approvals	ΔT °C	Description
N-020	Virgin PTFE	white	FDA NORSOK	-268 +260	All purpose, low friction coefficient, extrusion withstanding.
N-009	Ptfe-oxides	blue	FDA	-268 +260	All purpose on soft surfaces
N-031	Ptfe-bronze	green-blue		-268 +260	High wear resistance, hidraulic seals
N-032	Ptfe-carbon	black		-268 +260	High wear resistance, pneumatic and hydraulic seals
N-059	Ptfe-carbographite	black		-268 +260	High wear resistance, hydraulic and pneumatic seals, hard surfaces
N-197	Ptfe-carbographite	black	NORSOK	-268 +260	High wear resistance, hydraulic and pneumatic seals
N-043	Ptfe-graphite	black	FDA	-268 +260	High wear resistance, low friction coefficient.
N-103	Ptfe-carbon fibre	black	FDA	-268 +260	High wear resistance, low friction coefficient, hard surfaces.
N-077	Ptfe-glass fibre-MoS ₂	gray		-268 +260	Of general use, in lubricated applications, rotary seals
N-060	Ptfe-glass fibre	blue	FDA	-268 +260	All purpose on hard surfaces
N-067	Ptfe-glass fibre	white	FDA NORSOK	-268 +260	High wear and creep resistance
N-102	Ptfe-Liquid crystal polymer	beige	FDA - EU	-268 +260	Food & Pharma, soft surfaces
N-088	Ptfe-poliimide	yellow		-268 +260	High wear resistance. Soft surfaces
N-074	PEHMW	white	FDA	-140 +80	High wear and extrusion resistance
P95-A252	Polyurethane	blue	FDA	-50 +105	Extrusion and wear withstanding, low friction coefficient
P95-VI251	Polyurethane	violet	FDA	-30 +115	CIP (clean in place) fluids compatible
P95-R198	Polyurethane	red		-30 +125	Extrusion and wear withstanding, low friction coefficient, high temperatures
P95-AR255	Polyurethane	orange		-30 +135	Extrusion and wear withstanding, low friction coefficient, higher temperatures
P95-G253	Polyurethane MoS	gray		-30 +105	Extrusion and wear withstanding, lower friction coefficient

CHOOSING Neuflon-ptfe compound ACCORDING WITH FLUID AND SURFACE

SURFACES

Steel HEC>=30-45
Temp. Mart. Inox Steel
Cast Iron HRB<=200
Steel HRC>=45
Cast Iron HRB>200

Galvanic or chemical
surfacing HV>=700
Chromium Bronze

Bronze
Brass

Treated
Aluminium

Aust. Inox Steel
Glass

FLUIDS

NEUFロン-ptfe compounds (standard in bold)

Hydraulic oil
Transmission oil
Fire resistant syntetic
hydraulic oil

N-031
N-032 N-060 N-077 P95-A112

N-031
N-032 N-060 N-077 P95-A112

N-009
N-043 N-032 P95-A112

N-032
N-074 P95-A112

N-009
N-032 N-074 P95-A112

Water and oil/water

N-032

N-032

N-009

N-032

N-009



emulsions	N-060 N-077 N-074	N-060 N-077 N-074	N-043 N-074	N-074	N-032 N-074
Drugs and food	N-009 N-102 N-020 N-043 N-060 N-074 N-088 P95-B113	N-009 N-074 P95-B113	N-102 N-009 P95-B113	N-009 N-074 P95-B113	N-009 N-074 P95-B113
Air	N-032 N-031 N-043 N-074 P95-A112	N-032 N-043 P95-A112	N-032 N-009 N-043 N-074 P95-A112	N-032 N-074 P95-A112	N-032 N-009 N-043 N-074 P95-A112
Steam	N-032 N-043	N-032	N-009 N-032 N-043		N-032 N-009 N-043
Acids and Bases	N-032 N-059 N-074	N-032 N-043 N-074			N-009 N-032 N-043 N-074

ELASTOMER ACCORDING WITH FLUID

FLUID	ELASTOMER
HYDRAULIC OIL - TRANSMISSION OIL	NBR
FIRE RESISTANT SYNTETIC HYDRAULIC OIL	EPDM
WATER AND WATER/OIL EMULSIONS	NBR
FOOD AND DRUG	MVQ
AIR	NBR
STEAM	EPDM - FFKM
ACIDS AND BASES	FKM - FFKM