SALMARCON®

We make it seal!

SOFT SEALING
SOLUTIONS

TRUSTED TO DELIVER INNOVATIVE SOLUTIONS

RUBBER
MATERIALS

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KLINGER® SEALEX

KLINGER® SEALEX is a PTFE product manufactured from a unique, physically networked fibrillated material. It is composed of specially prepared fluorocarbons with excellent resistance to aggressive chemicals as well as offering secure sealing under high pressures, even permitting the use of the material in applications up to 150 bar internal pressure ratings.

KLINGER® SEALEX can be applied to any sealing face, giving excellent sealing performance even at low bolt loads.

Temperature Limit: MAX 270° C to 315° C
Pressure Limit: Full vacuum to 210 bar
Chemical Resistance: pH 0-14 except molten alkali metals and elemental fluorine

Important approval certifications and tests:
DVGW: Registration No. DG-5127BR0551
BAM / oxygen: Tested for oxygen at 60 bar and 60 °C (not for liquid oxygen)
TA-Luft: tested (at 150 °C)
FDA conform (including adhesives)

Rubber products

Rubber sheet based on NBR, CSM Hypalon, EPDM, Viton, NR Gaskets (all high grade) highly resistant to oils at high temperature such as food oil, transformer oil, petrol and so many more.

Epdm rubber sheets

EPDM or Ethylene Propylene Diene Monomer has an excellent operating temperature range of -45°C to + 120°C.It is highly recommended for out-door uses as it extremely resistant to oxidation, U.V. Rays and Ozone. However, EPDM does not have good oil resistance or adhesion properties. It is resistant to many chemicals and solvents and shows good resistance to many corrosive chemicals. It is also used for roofing sheets and weather strips.

Nitrile rubber sheets

Nitrile rubber or acrylonitrile butadiene rubber is a co-polymer of butadiene and acrylonitrile. It has good general resistance to oil along with good mechanical properties, especially tensile strength, flexing, compression set and impermeability to gases. It has moderate aging properties and good adhesion to metal. Its recommended operating temperature range is -30° C to + 120° C. It also displays a good resistance to inorganic chemical products except antioxidant agents and chlorine. It gives satisfactory resistance to general hydrocarbons. Due to its polar nature, we do not recommend its use with polar liquids like ketones, ethers, and amines.

Neoprene rubber sheets

CR is a homo-polymer of chloroprene or chloro-butadiene. It has excellent mechanical and good abrasion properties even without reinforcing filters and has a reasonable resilience in grades over 60° shore A. It displays good resistance to heat, ozone and weathering and gives good adhesion to metal. The recommended operating temperature range is between -40°C to +125°C. It has good resistance to inorganic hydrocarbons. We also offer flame retardant grades.

RUBBER SHEETS Physical properties and technical specs

			Basic Polymer	NBR	NR/SBR	HNBR	SBR	FKM	EPDM	CR/SBR	CSM	IIR (Butile)	VMQ (Silicone)
			Application	Oil resistant	Natural rubber	Oil resistant	Industrial	Flourinated	Ethylen-prpylene	Chloroprene	Chlorusulfonated	Butyl	Silicone
Tolerance		Units of measure	Specification	VALUES									
Hardness (H)	+/- 5	Sh.A3	ASTM D 2240	70	45	65	70	75	70	70	70	60	60
Tensile Strength (CR)	min.	Mpa	ASTM D 412C	8	10	16	3	6	5	5	8	7	7
Elongatiuon at break (AR)	min.	%	ASTM D 412C	350	400	300	230	270	250	250	170	4000	300
Tear strength	min.	N/mm(,)	ASTM D 624B	350	40	40	15	20	15	15	25	15	15
Abrasion resistance		mm3	DIN 53516										
Specific gravity	+/- 0,03	g/cm	DIN 53479	1,50	1,10	1,18	1,67	1,90	1,33	1,55	1,47	1,35	1,16
Ageing	**ΔH**	**SH.A3**		5	5	5	5	3	8	5			10
In AIR	ΔCR	%	ASTM D 573	-20	-40	-10	-20	-10	-30	-30			-15
For 72h	ΔAR	%		-40	-40	-20	-30	-20	-40	-40			-30
At 180°C	ΔV	%											
Ageing	**ΔH**	**SH.A3**											
In OZONE	ΔCR	%	ASTM D 417/										
For 70h	ΔAR	%	ASTM D 1149										
At 30°C - 100 pphm - all. 50	ΔV	%											
Ageing	**ΔH**	**SH.A3**		10		10							
In IRM 901	ΔCR	%	ASTM D 417										
For 70h	ΔAR	%											
At 100°C	ΔV	%		-10		-15							
Ageing	**ΔH**	**SH.A3**		-10		-10		-10					
In IRM 903	ΔCR	%	ASTM D 417										
For 70h	ΔAR	%											
At 100°C	ΔV	%		10		15		10					
Ageing	**ΔH**	**SH.A3**			-5		-6		-6	5			
In Water	ΔCR	%	ASTM D 417										
For 70h	ΔAR	%											
At 100°C	ΔV	%			5		6		5	5			
Working temperatures													
In AIR	°C	ASTM D 573	min	-20	-30	-20	-20	-10	-20	-20	-20	-30	-50
			max	100	70	150	70	200	70	70	120	110	200
In OIL	°C	ASTM D 471	min										
			max	100		140		150		23	80		
In WATER	°C	ASTM D 471	min										
			max	90	70	100	70	100	80	80	100	100	70

MAIN CHARACTERISTICS

Elasticity	✓	✓✓	✓	•	✗	✓	✓	✓	✗	✓
Compression	✓	✓✓	✓✓	•	✓✓	✓	✓	✓	✓	✓✓
Abrasion	•	✓✓	✓✓	•	•	•	•	✓✓	✓	•
Flame	•	•	•	•	✓✓	•	✗	✓	•	✓
Fuels	✓	✗	✓	✗	✓✓	✗	•	•	•	✗
Ozone	•	•	✓	✗	✓✓	✓	•	✓	•	✓✓

Symbol description: Unsuitable ✗ , Poor • , Good ✓ ,Exellent ✓✓ .

COMMERCIAL GRADE

Code	Specific Gravity	Hardness (±5)	Tensile Strength	Elongation at break	Compression Set at 70° C for 22 hrs	Temp. Range
	gm/cm^3	Shore A	(min) kg/cm^2	(min) %	%	°C
Type EP	1,30	60	80	300	35	-30 to +100
Type EP	1,35	65	60	250	35	-30 to +70
Type EP	1,35	65	70	300	50	-25 to +100

Salmarcon Endüstriyel San. Ve Tic. A.Ş.
Merkez/Fabrika (Center/Factory):
Çanakkale Organize Sanayi Bölgesi,
Karacaören Mevkii ,2. Cadde No.6
17100 ÇANAKKALE/TÜRKİYE

Satış Ofisi (Sales Office):
Fahrettin Kerim Gökay Cad.
Dolmabahçe Sok. Cebeci Apt.B Blok No.21/A
34732 Göztepe/İSTANBUL/TÜRKİYE

+90 444 82 19
+90 216 602 14 00

info@salmarcon.com
www.salmarcon.com