SALMARCON®

We make it seal!

SOFT SEALING
SOLUTIONS

TRUSTED TO DELIVER INNOVATIVE SOLUTIONS

PTFE SHEETS

PTFE GASKETS

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KLINGER® top-chem

KLINGER top-chem range provides the characteristics required by their target industries.

Sizes:
1250x1250 mm,
1500x1500 mm

Thickness (DIN 28091-1):
1.0 mm, 1.5 mm,
2.0 mm, 3.0 mm

Tolerances:
Thickness ± 5%
Lenght ± 5 mm
Width ± 5 mm

Material advantages:

- Chemical resistance
- Conformable to surface
- Hot water usage
- Tighteness at low load
- No longterm embritlement
- Crush resistance

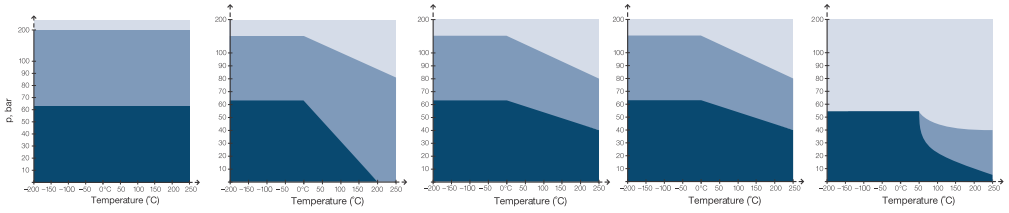
	top-chem 2000	top-chem 2003	top-chem 2005	top-chem 2006	soft-chem
					
Basis composition	PTFE gasket filled with Silicon carbide.	PTFE filled with hollow glass-microspheres.	PTFE filled with inorganic fillers.	PTFE filled with barium sulfate.	Multi-directional expanded PTFE.
Key features:	The only PTFE Fire Safe certificate gasket. Acidic & alkaline resistance and versatility in steam & oxygen.	Ideal material choice for strongly acidic and alkaline applications as well as for medium temperatures and loads.	Material offers a high chemical resistance in acidic applications, making it ideal for the chemical industry.	Great sealing performance at medium to low temperatures. Primarily used in the chemical industry.	Soft-chem's superior sealing capabilities represent the best choice for operating conditions of up to 260 C.
Industry:	General, Chemical, Oil & Gas, Energy, Infrastructure, Pulp & Paper, Marine, Automotive, Food & Beverage, Pharma.	General industry, Chemical, Oil & Gas, Energy, Infrastructure, Pulp & Paper, Marine, Automotive, Food & Beverage, Pharma.	General industry, Chemical, Oil & Gas, Energy, Infrastructure, Pulp & Paper, Marine, Automotive, Food & Beverage, Pharma.	General industry, Chemical, Oil & Gas, Energy, Infrastructure, Pulp & Paper, Marine, Automotive, Food & Beverage, Pharma.	General industry, Chemical, Oil & Gas, Energy, Infrastructure, Pulp & Paper, Marine, Automotive, Food & Beverage, Pharma.
Certificates & Approvals	DIN-DVGW, DIN-DVGW W 270, KTW-Guideline, WRAS, DNV GL, TA-Luft (Clean air), Fire-Safe acc. to DIN EN ISO 10497, FDA conform., Regulation (EU) No. 1935/2004*.	BAM tested, DIN-DVGW & W 270, KTW-Guideline, DNV GL, TA-Luft (Clean air), FDA conformity (components comply with requirements), Regulation (EU) No. 1935/2004 (incl. 10/2011).	BAM-tested, DIN-DVGW, WRAS, KTW-Guideline, DNV GL, TA-Luft (Clean air), FDA conformity (components comply with requirements), Regulation (EU) No. 1935/2004 (incl. 10/2011).	BAM-tested, DIN-DVGW, DNV GL, TA-Luft (Clean air), FDA Conformity (components comply with the FDA requirements).	Conforms to the regulation (EU) No. 1935/2004 (incl. 10/2011), FDA conformity (components of KLINGER®softchem comply with the FDA requirements).

TECHNICAL DATA Typical values for a thickness of 2.0 mm

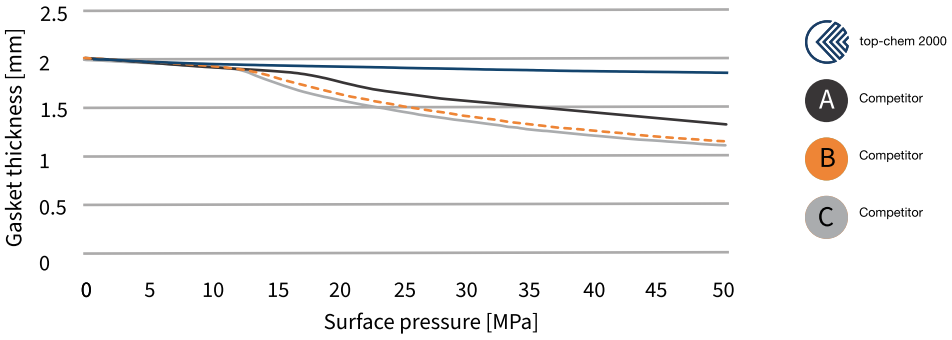
Compressibility	ASTM F 36 M	%	4	18	4	4	55
Recovery	ASTM F 36 M	%	50	35	40	40	15
Stress relaxation DIN 52913	30 Mpa, 16 h/150°C	Mpa	28	13	25	18	15
KLINGER cold/hot compression 50 MPa			36				
	thickness decrease at 23°C	%	5	10	5	12	35
	thickness decrease at 260°C	%	11	39	35	41	30*
Tightness	DIN 28090-2	mg/(s x m)	0.08	0.01	0.02	0.01	0.01
Specific leakrate	VDI 2440	mbar x l/(s x m)	4.46E-06	3.29E-06	8.75E-07	3.60E-06	
Thickness/weight increase	H SO, 100 %:18 h/23°C	%	1/1	1/1	11	-	
	HNO, 100 %:18 h/23°C	%	1/2	1/2	1/2	1/2	
	NaOH, 33 %:72 h/110°C	%	1/3	1/5		1/1	
Density		g/cm³	2.5	1.7	2.2	3.0	0.9
Average surface resistance	pO	Ω	6.9x10E12	6.9x10E12	3.1x10E13	1x10E13	
Average specific volume resistance	pD	Ω cm	2.2x10E12	2.2x10E12	3.2x10E13	1.2x10E13	
Average dielectic strenght	Ed	kV/mm	3.6	16.7	23.8	16.7	
Average power factor	50 Hz	tan ð	0.166	0.085	0.071	0.083	
Average dielectic coefficient	50 Hz	εr	10.6	2.8	3.2	4.2	
Thermal conductivity	λ	W/mK	0.60	0.18	0.42	0.40	

The area of the **P-T diagram**

- In area one, the gasket material is normally suitable subject to chemical compatibility.
- In area two, the gasket material may be suitable but a technical evaluation is recommended.
- In area three, do not install the gasket without a technical evaluation. Always refer to the chemical resistance of the gasket to the media.



Intrusion into bore diagram
shows Top-chem outcasts competition gasket materials significantly.



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