

FLAT GASKETS FROM KLINGER®TOP-CHEM

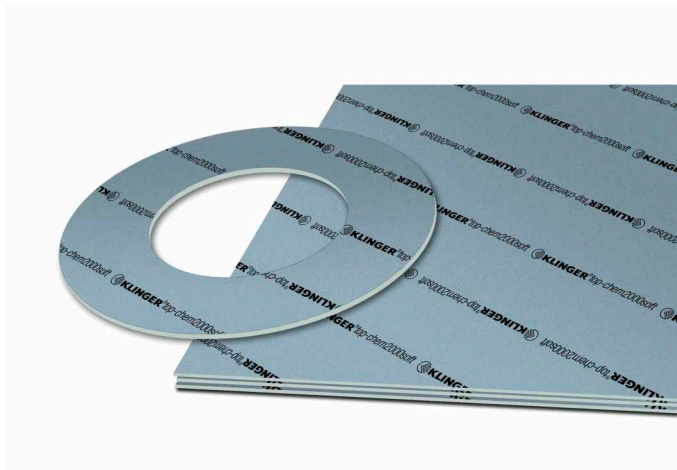
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Soft material flat gaskets from KLINGER®top-chem

With the superb quality of the series, you have all of the advantages of PTFE gaskets without the usual disadvantages. With KLINGER®top-chem you can really push the boundaries of what's possible. You'll save productive time and gain greater system security.

With our seamless coverage of all applications and hugely detailed description of the performance features of each product, you can avoid any gaps in security.

The following brief descriptions of the three different materials will give you an overview and make your choice easier:

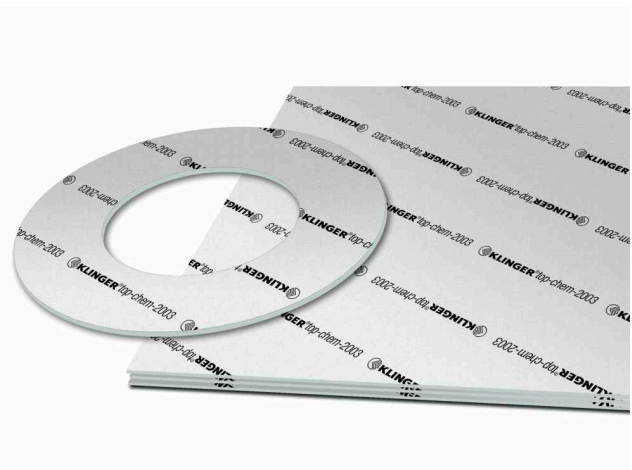


KLINGER®top-chem 2000soft

- » PTFE sealing material filled with silicon carbide
- » Colour: grey
- » Excellent compressibility with best mechanical properties
- » High adaptability and tightness
- » Outstanding chemical resistance in applications with strong acids and alkalis
- » High-quality sealing material for many areas of application

Approvals and test reports:

FDA, TA-Luft



KLINGER®top-chem 2003

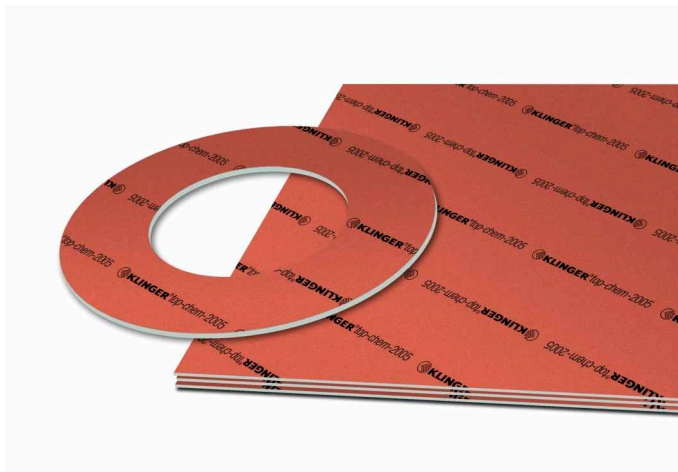
- » PTFE sealing material with inorganic fillers
- » Colour: white
- » Highly compressible - very good sealing properties even at low surface stresses
- » pH 0 - 14
- » can be used with all chemicals, except for alkaline solutions, liquid or gaseous fluorine and hydrofluoric acid

Approvals and test reports:

DVGW, FDA, BAM (liquid oxygen), TA Luft, DNV GL

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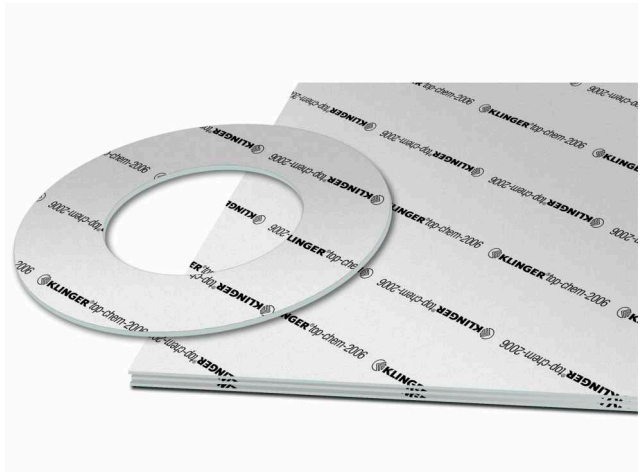


KLINGER® top-chem 2005

- » PTFE sealing material with inorganic fillers
- » Colour: red
- » Very good chemical resistance to strong acids
- » Good mechanical properties
- » pH 0 - 14
- » can be used with all chemicals, except for alkaline solutions, liquid or gaseous fluorine and hydrofluoric acid

Certification:

DVGW, KTW, FDA, BAM, TA Luft, DNV GL, WRAS



KLINGER® top-chem 2006

- » Barium sulphide filled PTFE material
- » Colour: white
- » Very good chemical resistance to strong alkaline applications and liquid acids
- » Good mechanical properties
- » pH 0 - 14
- » can be used with all chemicals, except for alkaline solutions, gaseous fluorine and liquid sulphuric acid.

Approvals and test reports:

DVGW, KTW, FDA, BAM, TA Luft, DNV GL

Technical data

KLINGER®top-chem					
		2000soft	2003	2005	2006
Reference thickness	mm	2,0	1,5	1,5	1,5
Density	g/cm³	2,1	1,7	2,2	3,0
Compressibility	ASTM F36J %	15	18	3	4
Recovery	ASTM F36J % min	20	30	40	45
Leak-tightness DIN 28090-2	mg/s*m	0,05	0,01	0,02	0,01
Compression Stability DIN 52913					
30 MPa 16h 150 °C	MPa	25	13	25	18
according to KLINGER					
Thickness decrease					
23 °C / 50 MPa	%	17	9	6	10
260 °C / 25 MPa	%	20	38	30	40
Thickness / weight increase					
H ₂ SO ₄ 100 % 18 h / 23 °C	%	1/1	1/1	1/1	-
HNO ₃ 100 % 18 h / 23 °C	%	½	0/5	½	½
NaOH 33 % 72 h / 110 °C	%	2/3	1/5	-	1/1
H ₂ O 5h / 100 °C		1/1	-	-	-