



KLINGER® top-chem 2006 - PTFE filled with barium sulfate, this pigment-free gasket material with excellent resistance to strong alkalis.

Produced from PTFE filled with barium sulfate, this pigment-free gasket material convinces with its excellent resistance to strong alkalis as well as with good mechanical properties at medium to low temperatures and loads. This gasket material is primarily used in the chemical industry.

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Basis composition	PTFE filled with barium sulfate.
Color	White
Certificates	BAM-tested, DIN-DVGW, DNV GL approval, TA-Luft (Clean air), FDA conformity (components of KLINGER®topchem 2006 comply with the FDA requirements)

Sheet size	1500 x 1500 mm			
Thickness	1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm			
Tolerances				
Thickness according to DIN 28091-1				
Length:	± 50 mm			
Width:	± 50 mm			

Industry

General industry / Chemical / Oil & Gas / Energy / Infrastructure / Pulp & Paper / Marine / Automotive / Food & Beverage / Pharma

TECHNICAL DATA - Typical values for a thickness of 2.0 mm

Compressibility	ASTM F 36 M	%	4
Recovery	ASTM F 36 M	%	40
Stress relaxation DIN 52913	30 MPa, 16 h/150°C	MPa	18
KLINGER cold/hot compression	thickness decrease at 23°C	%	12
50 MPa	thickness decrease at 260°C	%	41
Tightness	DIN 28090-2	mg/(s x m)	0.01
Specific leakrate	VDI 2440	mbar x l/(s x m)	3.60E-06
Thickness/weight increase	H ₂ SO ₄ , 100%: 18 h/23°C	%	_
	HNO ₃ , 100%: 18 h/23°C	%	1/2
	NaOH, 33%: 72 h/110°C	%	1/1
Density		g/cm ³	3.0
Average surface resistance	ρΟ	Ω	1x10E13
Average specific volume resistance	ρD	Ω cm	1.2x10E13
Average dielectric strength	Ed	kV/mm	16.7
Average power factor	50 Hz	tan δ	0.083
Average dielectric coefficient	50 Hz	εr	4.2
Thermal conductivity	λ	W/mK	0.40
ASME-Code sealing factors		'	
for gasket thickness 2.0 mm	tightness class 0.1mg/s x m	MPa	y 12
			m 3.1





Chemical resistance chart

Simplified overview of the chemical resistance depending on the most important groups of raw materials:

KLINGER®top-chem 2006 A: small or no attack B: weak till moderate attack C: strong attack Chlorinated Paraffinic Motor Mineral Motor Acid Rase Aromates hydrocarbon Alcohol Ketone Este Water hvdrocarbon fuel oil lubricants (diluted) (diluted) fluids Α Α Α Α Α Α Α A Α Α Α Α

For more information on chemical resistance please contact us

All information is based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behaviour in gasket joint. The data may not, therefore, be used to support any warranty claims. This edition cancels all previous issues. Subject to change without notice.

Certified acc. to DIN EN ISO 9001:2015 Subject to technical alterations. Status: April 2020



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