

KLINGER®top-chem 2000

KLINGER®top-chem 2000, the only PTFE gasket worldwide to have been awarded a Fire Safe certificate, is a universal heavy-duty gasket filled with silicon carbide. Providing best performance in applications with high mechanical requirements at high temperatures, this gasket material features excellent acidic and alkaline resistance and versatility in steam applications. This material also meets FDA conformity.

TECHNICAL DATA SHEET

KLINGER®top-chem 2000

PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Color	--	--	Grey
Basis Composition	PTFE gasket filled with SiC (Silicon carbide)		
Compressibility	ASTM F 36 M	%	4
Recovery	ASTM F 36 M	%	50
Stress Relaxation	30 MPa, 16 h/150°C	MPa	28
	50 MPa, 16 h/260°C	MPa	36
KLINGER Cold/Hot Compression (50 MPa)	Thickness decrease at 23°C	%	5
	Thickness decrease at 260°C	%	11
Tightness	DIN 28090-2	mg/(s x m)	0.08
Specific Leakrate	VDI 2440	mbar x l/(s x m)	4.46E-06
Thickness/Weight Increase	H ₂ SO ₄ , 100%: 18 h/23°C	%	1/1
	HNO ₃ , 100%: 18 h/23°C	%	1/2
	NaOH, 33%: 72 h/110°C	%	1.3
Density	--	g/cm ³	2.5
Average Surface Resistance	pO	Ω	6.9×10E12
Average Specific Volume Resistance	pD	Ω cm	2.2×10E12
Average Dielectric Strength	Ed	kV/mm	3.6
Average Power Factor	50 Hz	tan δ	0.166
Average Dielectric Coefficient	50 Hz	εr	10.6
Thermal Conductivity	λ	W/mK	0.60
Certificates			
DIN-DVGW and DIN/DVGW W 270 TA-Luft (Clean Air) FDA compliant (PTFE)	KTW-Guideline Regulation (EU) No. 1935/2004 (incl. 10/2011) Fire-Safe acc. to DIN EN ISO 10497		Oxygen-tested DNV GL approval WRAS approval