

Gasket material

Klingersil® C 4500 | FS 30079

Material: Klingersil® C 4500 | FS 30079 is a high-pressure gasket material, made of carbon fibers, special high-temperature resistant additives and nitrile rubber. Klingersil® C 4500 | FS 30079 has a non-stick coating and meets the following standards:

UVV 28	BAM
DIN-DVGW	NG-5123AN0539
ÖVGW-admission	G2 143
HTB-test	ÖNORM M7435/T6
API SPEC 6 FA	fire safe

Properties: Klingersil® C 4500 | FS 30079 has very good sealing characteristics and can be used with strong alkaline media and vapor at higher temperatures. It is resistant against oils, gases, saline solutions, fuels, alcohols, weak organic and inorganic acids, hydrocarbons, lubricants and cooling agents. Klingersil® C 4500 | FS 30079 therefore meets very high performance standards.

Applications: Klingersil® C 4500 | FS 30079 can be used in a variety of applications due to its compatibility with many materials.

Delivery forms: Klingersil® C 4500 | FS 30079 is available in a thickness of 0,5 – 3,0 mm ($\pm 10\%$) and can be delivered as molded or die-cut part, customized cut or sheet (1000 x 1500, 2000 x 1500 (± 50)). Other delivery forms upon customers request. Klingersil® C 4500 | FS 30079 can also be equipped with graphitization or other surface equipments on one of both sides.

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Properties	Test method	Unit	Value
Compressibility	ASTM F 36 J	%	11
Spring back	ASTM F 36 J	%	Min. 60
Pressure resistance, 50 MPa, 16 h, 175°C	DIN 52913	MPa	35
Pressure resistance, 50 MPa, 16 h, 300°C	DIN 52913	MPa	32
Pressure resistance, 40 MPa, 16 h, 300°C	BS 7531	MPa	30
Tightness	DIN 3535/6	mg/s x m	<0,1
Tightnessclass L	DIN 28090-1		0,1
Specific leak rate λ	VDI 2440	mbar x l/s x m	4,94E-06
Cool heading	DIN 28091-2	%	7-11
Cold recovery	DIN 28091-2	%	3-5
Heat heading	DIN 28091-2	%	9
Heat recovery	DIN 28091-2	%	1
Recovery R	DIN 28091-2	mm	0,019
Thickness increase oil JRM 903, 5 h, 150°C	ASTM F 146	%	3
Thickness increase fuel B, 5 h, 150°C	ASTM F 146	%	5
Density		g/cm ³	1,4
Middle spec. contact resistance p_D		Ω cm	8,0 x 10E4
Thermal conductivity		W/mK	0,2
Basic leak rate 0,1 mg/s x m, seal thickness 2,0 mm		MPa	25
y			4
m			

Trademark information: Klingersil® is a registered trademark of company Klinger AG.

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Please note:

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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