

Gasket material

Klingersil® C 4430 | FS 30078

Material: Klingersil® C 4430 | FS 30078 is a high-pressure gasket material, made of synthetic fibers and nitrile rubber. Klingersil® C 4430 | FS 30078 has a non-stick coating and meets the following standards:

UVV 28	BAM
DIN-DVGW	NG-5123AN0418

Properties: Klingersil® C 4430 | FS 30078 has very good sealing characteristics and is resistant against water and vapor at higher temperatures as well as oils, gases, saline solutions, fuels, alcohols, weak organic and inorganic acids, hydrocarbons, lubricants and cooling agents. Klingersil® C 4430 | FS 30078 is also very compression stable and exhibits low thickness decrease at higher temperatures.

Applications: Klingersil® C 4430 | FS 30078 can be used in a variety of applications due to its compatibility with many materials.

Delivery forms: Klingersil® C 4430 | FS 30078 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 4409 | FS 30078 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	%	9
Spring back	ASTM F 36 J	%	Min. 50
Pressure resistance, 50 MPa, 16 h, 175°C	DIN 52913	MPa	39
Pressure resistance, 50 MPa, 16 h, 300°C	DIN 52913	MPa	35
Pressure resistance, 40 MPa, 16 h, 300°C	BS 7531	MPa	31
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	2,13E-05
Cool heading	DIN 28091-2	%	6-10
Cold recovery	DIN 28091-2	%	2-4
Heat heading	DIN 28091-2	%	7
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	1,75
Middle surface resistance R_{0A}		Ω	4,1 x 10E13
Middle spec. contact resistance p_D		Ω cm	4,5 x 10E12
Middle dielectric strength		kV/mm	21,3
Middle dielectric loss factor 1 kHz, 2 mm thickness		tan δ	0,02
Middle dielectric constant 1 kHz, 2 mm thickness		ϵ_r	6,4
Thermal conductivity		W/mK	0,42
Basic leak rate 0,1 mg/s x m, seal thickness 2,0 mm		MPa	25
y			5
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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