

## Gasket material

### Klingersil® C 4400 | FS 30075

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**Material:** Klingersil® C 4400 | FS 30075 is a high-pressure gasket material, made of aramid fibers and nitrile rubber. Klingersil® C 4400 | FS 30075 has a non-stick coating and meets the following requirements:

UVV 28	BAM
DIN 3535/6	authorized for gas supply
DIN-DVGW	NG-5123AR0251

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**Properties:** Klingersil® C 4400 | FS 30075 has very good sealing characteristics and can be used with oils, water, vapor, gas, saline solutions, fuels, alcohols, weak organic and inorganic acids, hydrocarbons, lubricants and cooling agents. Therefore it has a high performance level.

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**Applications:** Klingersil® C 4400 | FS 30075 can be used in a variety of applications due to its compatibility with many materials.

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**Delivery forms:** Klingersil® C 4400 | FS 30075 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 mm ( $\pm 50$ )). Other delivery forms upon customers request. Klingersil® C 4400 | FS 30075 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. 55
Pressure resistance, 50 MPa, 16 h, 175°C	DIN 52913	MPa	32
Pressure resistance, 50 MPa, 16 h, 300°C	DIN 52913	MPa	25
Pressure resistance, 40 MPa, 16 h, 300°C	BS 7531	MPa	23
Tightness	DIN 3535/6	mg/s x m	0,02
Tightnessclass L	DIN 28090-1		0,1
Specific leak rate $\lambda$	VDI 2440	mbar x l/s x m	1,64E-08
Cool heading	DIN 28091-2	%	8-12
Cold recovery	DIN 28091-2	%	3-5
Heat heading	DIN 28091-2	%	<15
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 <sup>3</sup>	1,6
Middle surface resistance $R_{0A}$		$\Omega$	1,4 x 10E12
Middle spec. contact resistance $p_D$		$\Omega$ cm	1,2 x 10E12
Middle dielectric strength		kV/mm	21,6
Middle dielectric loss factor 1 kHz, 2 mm thickness		tan $\delta$	0,075
Middle dielectric constant 1 kHz, 2 mm thickness		$\epsilon_r$	7,7
Thermal conductivity		W/mK	0,40-0,42
Basic leak rate 0,1 mg/s x m, seal thickness 2,0 mm		MPa	20
y			3,5
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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