

## Gasket material

### Klingsil® C 4409 | FS 30077

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**Material:** Klingsil® C 4409 | FS 30077 is a high-pressure gasket material, made of synthetic fibers and nitrile rubber. Klingsil® C 4409 | FS 30077 has a non-stick coating and is very durable to its expanded metal armor (1.1203).

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**Properties:** Klingsil® C 4409 | FS 30077 has very good sealing characteristics and can be used with oils, water, vapor, gas and hydrocarbons. It is suitable for applications where high durability against vapor and liquid/gaseous chemicals are used.

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**Applications:** Klingsil® C 4409 | FS 30077 can be used in a variety of applications due to its compatibility with many materials.

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**Delivery forms:** Klingsil® C 4409 | FS 30077 is available in a thickness of 0,8 – 1,5 mm ( $\pm$  10%) and can be delivered as molded or die-cut part, customized cut or sheet. Other delivery forms upon customers request. Klingsil® C 4409 | FS 30077 can also be equipped with graphitization or other surface equipments on one of both sides. Klingsil® C 4409 | FS 30077 is also available in a folded form and can be wrapped with PTFE. It can also be delivered as a stainless steel (1.4301) version.

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## Klingersil® C 4409 | FS 30077

| Properties   | Test method | Unit              | Value     |
|--|-------------|-------------------|-----------|
| Compressibility  | ASTM F 36 J | %                 | 7         |
| Spring back  | ASTM F 36 J | %                 | min. 50   |
| Pressure resistance, 50 MPa, 16 h, 300°C                         | DIN 52913   | MPa               | 35        |
| Tightness  | DIN 3535/6  | m/min             | 2,0       |
| Specific leak rate $\lambda$                                     | VDI 2440    | mbar x l/s x m    | 5,2E-5    |
| Thickness increase oil JRM 903, 5 h, 150°C                       | ASTM F 146  | %                 | 3         |
| Thickness increase fuel B, 5 h, 23°C                             | ASTM F 146  | %                 | 5         |
| Density  |             | g/cm <sup>3</sup> | 2,0       |
| Basic leak rate 1,0 mg/s x m for sealthickness 1,5 mm<br>y<br>m  | DIN 28090   | MPa               | 15<br>4   |
| Basic leak rate 0,0 mg/s x m for sealthickness 1,5 mm<br>y<br>m  | DIN 28090   | MPa               | 20<br>14  |
| Basic leak rate 0,01 mg/s x m for sealthickness 1,5 mm<br>y<br>m | DIN 28090   | MPa               | 30<br>100 |

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

**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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