



KLINGERSIL C-4509



Top quality Klingsil grade based on carbon fibre with a nitrile rubber binder with an expanded steel reinforcement. A premium quality sealing material with outstanding resistance to alkaline media and steam.

The Klinger group has been recognised as the market leader in gaskets and sealing for over a century. Our research and development laboratories have investigated over 250 different fibre forms in the search for asbestos free alternatives. The search has resulted in a range of high quality and high performance asbestos free materials that have been proven in service

GENERAL PROPERTIES

- » Good resistance to steam
- » Good resistance to alkaline applications
- » Excellent load bearing characteristics
- » Good creep resistance
- » Good resistance to oils, fuels, hydrocarbons
- » 3xA anti-stick finish on both sides

AVAILABILITY

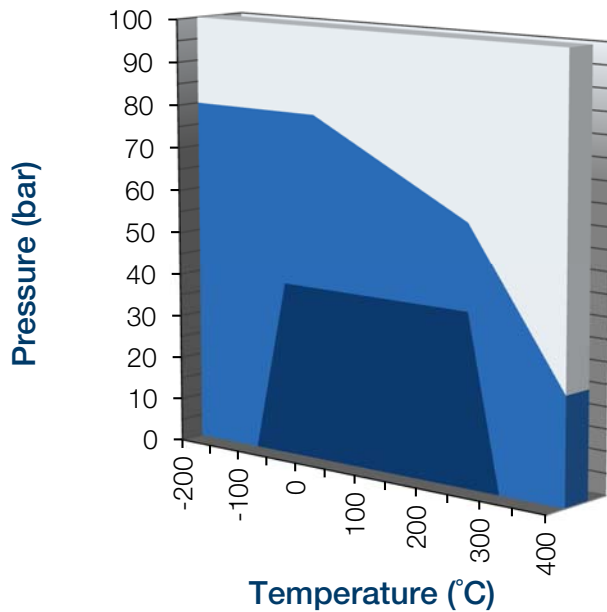
- » Sheeting (m): 2.0 x 1.5*, 4.0 x 1.5
- » Thickness (mm): 1.0, 1.5, 2.0, 3.0

* - Denotes standard sheet size

Also available without re-inforcements:
KLINGERSil C-4500

APPLICATION GUIDELINES

KLINGERSIL C-4509



- Caution: May be suitable but essential that you refer to Klinger for advice
- Usually Satisfactory, but suggest you refer to Klinger for advice
- Usually Satisfactory to Use Without Reference

NOTE: Chemical compatibility must be considered in all cases.

TYPICAL SPECIFICATIONS

(Typical values for 2.0mm thick material)

| PROPERTIES | CONDITIONS | VALUES |
|------------------------------------|-----------------------------|----------------------|
| Compressibility ASTM F 36 A | | 12% |
| Recovery ASTM F 36 A | | 65% |
| Stress relaxation DIN 52913 | 50MPa, 16h/300°C | 39MPa |
| Klinger cold/hot compression 50Mpa | Thickness decrease 23°C | 9% |
| | Thickness decrease at 300°C | 7% |
| Thickness increase after fluid | Oil IRM 903 5h/150°C | 3% |
| Immersion ASTM F 146 | Fuel B:5h/23°C | 5% |
| Density | | 2.0g/cm ³ |

HEAD OFFICE

KLINGER Ltd
Wharfedale Road
Euroway Trading Estate
Bradford BD4 6SG

Tel: 01274 688 222
Fax: 01274 688 549
www.klinger.co.uk
enquiries@klingeruk.co.uk



FM 602916 FM 10571 OHS 570166 EMS 570165

KLINGER RUNCORN

Tel: 01928 577 030
Fax: 01928 575 233

KLINGER SOUTHAMPTON

Tel: 02380 611 855
Fax: 02380 610 360

KLINGER ABERDEEN

Tel: 01224 772 962
Fax: 01224 772 953

KLINGER IMMINGHAM

Tel: 01469 575 289
Fax: 08449 676 779

KLINGER MIDDLESBROUGH

Tel: 01642 220 289
Fax: 01642 220 290

KLINGER GRANGEMOUTH

Tel: 01324 472 231
Fax: 01324 482 111