



# 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, 1.5 x 1.0
- Thickness (mm): 1.0, 1.5, 2.0, 3.0

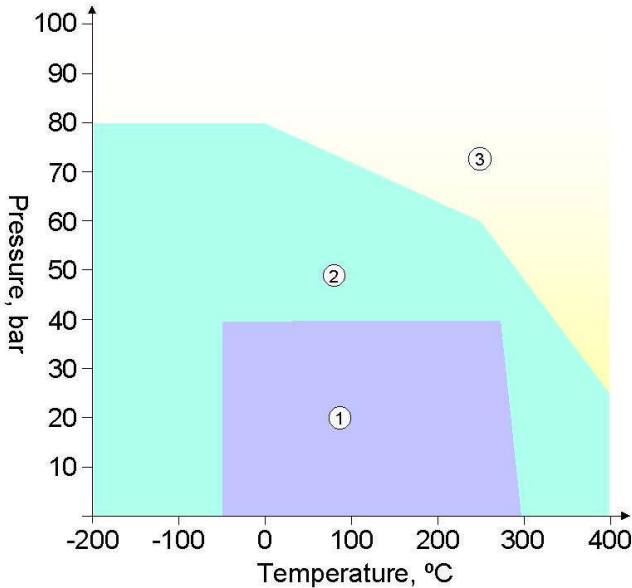
\* - Denotes standard sheet size

Also available without re-inforcements:  
KLINGERSil C-4500





## KLINGERsil C-4509



### Application Guidelines

1. Usually satisfactory without reference.
  2. Usually satisfactory, but suggest you refer to Klinger for advice
  3. Caution: May be suitable but essential that you refer to Klinger for advice.
- Chemical compatibility must be considered in all cases.

### Typical Specifications

Compressibility ASTM F 36 A		12%
Recovery ASTM F 36 A		70%
Stress relaxation DIN 52913	50MPa, 16h/300°C	39MPa
Klinger cold/hot compression 50MPa	Thickness decrease 23°C	9%
Chlorides (soluble)	decrease at 300°C	7%
		150ppm
Thickness increase after fluid Immersion ASTM F 146	Oil nr.3:5h/150°C	3%
Density	Fuel B:5h/23°C	5%
		2.0g/cm <sup>3</sup>

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