KLINGERsil C-4400

High quality non-asbestos grade based on aramid fibre with nitrile rubber binder. A general purpose material for many industrial-sealing applications.

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 oils, fuels, hydrocarbons
- Good creep resistance
- Low leakage
- Very successful in internal combustion engine applications
- 3xA anti-stick finish on both sides

Tests and Certifications
- BS 7531 Grade Y
- BS F 130 Type A
- Firesafe HTB 90.0223.39.0
- DIN-DVGW
- BAM U W28 for use with oxygen 100°C / 80 Bar
- KTW A 528/88/G
- SYGW 89-053-7
- Germanischer Lloyd 98 952 – 97 HH
- TA-Luft (Clean Air) certificate acc. VDI 2440

Availability
- Sheeting (m): 2.0 x 1.5, 4.0 x 1.5, 1.5 x 1.0
- Thickness (mm): 0.25, 0.4, 0.5, 0.75, 1.0, 1.5, 2.0, 2.5, 3.0

* - Denotes standard sheet size

Also available with re-inforcements:
KLINGERsil C-4408, mild steel mesh
KLINGERsil C-4409, expanded mild steel
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressibility ASTM F 36 A</td>
<td>11%</td>
</tr>
<tr>
<td>Recovery ASTM F 36 A</td>
<td>55%</td>
</tr>
<tr>
<td>Stress relaxation DIN 52913</td>
<td>50MPa, 16h/175°C</td>
</tr>
<tr>
<td></td>
<td>50MPa, 16h/300°C</td>
</tr>
<tr>
<td>Stress relaxation BS 7531</td>
<td>23MPa</td>
</tr>
<tr>
<td>Klinger cold/hot compression, 50MPa</td>
<td>Thickness decrease 23°C</td>
</tr>
<tr>
<td></td>
<td>Thickness decrease at 300°C</td>
</tr>
<tr>
<td>Gas leakage according to DIN 3535/6</td>
<td>0.02m³/min</td>
</tr>
<tr>
<td>Thickness increase after fluid immersion</td>
<td>Oil no.3, 5h/150°C</td>
</tr>
<tr>
<td>ASTM F 146</td>
<td>Fuel B, 5h/23°C</td>
</tr>
<tr>
<td>Chlorides (soluble)</td>
<td>150ppm</td>
</tr>
<tr>
<td>Density</td>
<td>1.6g/cm³</td>
</tr>
<tr>
<td>Average surface resistance</td>
<td>( R_{DA} )</td>
</tr>
<tr>
<td>Average specific volume resistance</td>
<td>( \rho_{s} )</td>
</tr>
<tr>
<td>Average dielectric strength</td>
<td>21.6 kV/mm</td>
</tr>
<tr>
<td>Average power factor</td>
<td>1kHz, ca. 2mm thick</td>
</tr>
<tr>
<td>Average dielectric constant</td>
<td>1kHz, ca. 2mm thick</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>0.4-0.42 W/mK</td>
</tr>
</tbody>
</table>

Head Office

Klinger Ltd, Grangemouth
Klinger Ltd, Aberdeen
Klinger Ltd, Southampton
Wharfedale Road
Euroway Trading Estate
Bradford BD4 6SG
Klinger Ltd, Runcombe
Klinger Ltd, Middlesbrough
Tel: 01324 472 231
Fax: 01324 492 111
Tel: 01224 772 962
Fax: 01224 772 953
Tel: 023 8061 1955
Fax: 023 8061 0390

enquiries@klingeruk.co.uk
www.klingeruk.co.uk

All information and recommendations contained in this specification sheet are to the best of our knowledge correct. Since conditions of use are beyond our control, users must satisfy themselves that the products are suitable for the intended processes and uses. No warranty is given or implied in respect of information or recommendations or that any use of products will not infringe rights belonging to other parties. In any event or occurrence our liability is limited to our invoice value of the goods delivered by us to you. We reserve the right to change product design and properties without notice.