Carbon Fiber Gasketing

**KLINGERSIL® C-4500**

- Carbon Fiber
- Nitrile Binder
- High Temperature
- High Internal Pressure
- Good Steam Sheet
- Suitable for a Wide Range of Chemical Applications

Typical values refer to 1/16" material unless otherwise specified.

See graphs for temperature & pressure limits

<table>
<thead>
<tr>
<th>Property</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creep Relaxation</td>
<td>ASTM F38B (1/32&quot;) 20%</td>
</tr>
<tr>
<td>Sealability</td>
<td>ASTM F37A (1/32&quot;) &lt;0.30 ml/hr</td>
</tr>
<tr>
<td>Gas Permeability</td>
<td>DIN 3535/6 &lt;1.0 ml/min</td>
</tr>
<tr>
<td>Compressibility</td>
<td>ASTM F36J 12%</td>
</tr>
<tr>
<td>Recovery</td>
<td>ASTM F36J 60% minimum</td>
</tr>
</tbody>
</table>

**Klinger Hot Compression Test**

- Thickness Decrease 73°F (23°C) 10% initial
- Thickness Decrease 572°F (300°C) 15% additional

**Weight Increase**

- ASTM F146 after immersion in Fuel B 5h/73°F (23°C) 10% maximum
- Thickness Increase
  - ASTM F146 after immersion in
  - ASTM Oil 1, 5h/300°F (149°C) 0-5%
  - ASTM Oil IRM903, 5h/300°F (149°C) 0-3%
  - ASTM Fuel A, 5h/73°F (23°C) 0-5%
  - ASTM Fuel B, 5h/73°F (23°C) 0-5%

**Dielectric Strength**

- ASTM D149-95a 1.5 kV/mm

**ASTM F104 Line Call Out**

F712122B3E11K6M5

**Leachable Chloride Content**

- FSA Method (Typical) 200 ppm

**Density**

- ASTM F1315 87 lb/ft³ (1.4 g/cc)

**Color (Top/Bottom)**

Black
Pressure & Temperature Graphs
Material Thickness: 1/16"

Liquids

Gases & Steam