KLINGERSIL® C-8200 is a premium high-pressure gasket which offers more safety for the use with high concentrated acids.

Glass fibres bonded with special acid resistant elastomers. This material is resistant to a wide variety of media and especially to acids.

**Key features:**
- Special acid-resistant elastomer as binder
- Flame retardant binder

**Benefits:**
- Resistant to a variety of media especially acids
- Improved ozone resistance

**Certificates and approvals:**
- German Lloyd
- TA-Luft (Clean air)

**Properties:** referring to KLINGERSIL® product range

<table>
<thead>
<tr>
<th>Industry</th>
<th>Mechanical Resistance</th>
<th>Thermal Resistance</th>
<th>Sealability</th>
<th>Chemical Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPERIOR</td>
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<tr>
<td>EXCELLENT</td>
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<td>VERY GOOD</td>
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<td>GOOD</td>
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<tr>
<td>MODERATE</td>
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</tbody>
</table>

**Industries:**
- Industry
- Chemical
- Oil & Gas
- Energy
- Infrastructure
- Pulp & Paper
- Transport
- Food & Beverages
- Pharma
Typical technical data for thickness 2.0 mm:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressibility ASTM F 36 J</td>
<td>% 9</td>
</tr>
<tr>
<td>Recovery ASTM F 36 J</td>
<td>% 55</td>
</tr>
<tr>
<td>KLINGER cold/hot compression 25 MPa</td>
<td>thickness decrease at 23°C % 7</td>
</tr>
<tr>
<td></td>
<td>thickness decrease at 200°C % 15</td>
</tr>
<tr>
<td>Specific leakrate A VDI 2440</td>
<td>mbar x l/s x m 9.17E-09</td>
</tr>
<tr>
<td>Density</td>
<td>g/cm³ 1.7</td>
</tr>
</tbody>
</table>

**Acid tests**

- Thickness increase after fluid immersion ASTM F 146
  - HNO₃ 96%, 18 h/23°C % unsuitable
  - H₂SO₄ 96%, 18 h/23°C % 15
  - H₂SO₄ 65%, 48 h/23°C % 8
  - oil IRM 903: 5 h/150°C % 5
  - fuel B: 5 h/23°C % 10

- Average surface resistance: `Ω 5.8x10E11`
- Average specific volume resistance: `Ω cm 4.1x10E12`
- Average dielectric strength: `E_d kV/mm 17.0`
- Average power factor: `tan δ 0.228`
- Average dielectric coefficient: `ε 9.4`

**ASME-Code sealing factors**

- for gasket thickness 1.0 mm
  - tightness class 0.1 mg/s x m MPa y 20 m 2.1
- for gasket thickness 2.0 mm
  - tightness class 0.1 mg/s x m MPa y 20 m 3.0
- for gasket thickness 3.0 mm
  - tightness class 0.1 mg/s x m MPa y 20 m 6.2

**Dimensions of the standard sheets:**

- Sizes: 1000 x 1500 mm, 2000 x 1500 mm
- Thicknesses: 0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm
- Tolerances: Thickness acc. DIN 28091-1
  - Length ± 50 mm, width ± 50 mm
- Other thicknesses, sizes and tolerances on request.

**pT diagram for thickness 2.0 mm:**

1. In area one, the gasket material is normally suitable subject to chemical compatibility.
2. In area two, the gasket material may be suitable but a technical evaluation is recommended.
3. In area three, do not install the gasket without a technical evaluation.

Always refer to the chemical resistance of the gasket to the media.