KYNAR® 400 FOR FLEXIBLE PIPELINES

- Kynar® 400: API 17J certified for flexible pipelines
- Outstanding mechanical properties
- Resistant to crude oil at high temperature (130°C)
- Excellent resistance to sour environment (H₂S and CO₂)
- High blistering resistance at high temperature and pressure
- Good barrier properties to ethanol

KYNAR® POWDER COATING

- Outstanding corrosion protection
- Excellent abrasion resistance
- Adheres to metal
### BARRIER TO FLUIDS: VERY LOW PERMEATION

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Conditions</th>
<th>Permeation value / cm³·cm/cm²·s·barv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methane</td>
<td>111°C, 100 bars</td>
<td>4.2 x 10⁻⁸</td>
</tr>
<tr>
<td>Methane</td>
<td>130 °C, 100 bars</td>
<td>9.0 x 10⁻⁸</td>
</tr>
<tr>
<td>CO₂</td>
<td>130 °C, 110 bars</td>
<td>47.0 x 10⁻⁸</td>
</tr>
<tr>
<td></td>
<td>130 °C, 485 bars</td>
<td>57.0 x 10⁻⁸</td>
</tr>
<tr>
<td>H₂S</td>
<td>130 °C, 100 bars</td>
<td>136.0 x 10⁻⁸</td>
</tr>
</tbody>
</table>

### VERY LOW VOLUME SWELL AT 750 BARS/140°C

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Conditions</th>
<th>CO₂</th>
<th>Methane</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8%</td>
<td>6%</td>
</tr>
</tbody>
</table>

### SUPERIOR CREEP RESISTANCE AT HIGH TEMPERATURE

![Graph showing tensile yield stress as a function of test temperature](image_url)

**Test temperature (°C)**

- 140°C
- 150°C

**Yield stress (MPa)**

- 0
- 2
- 4
- 6
- 8
- 10
- 12

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