Product Description
DuPont™ Kalrez® Spectrum™ 7375 perfluoroelastomer parts are an innovative FFKM product based on a patented crosslinking system for chemical process industry applications where broad chemical and water/steam resistance are needed at elevated temperatures. Kalrez® Spectrum™ 7375 parts exhibit excellent compression set resistance, outstanding physical property retention, and good mechanical strength properties. A maximum application temperature of 300 °C is suggested.

<table>
<thead>
<tr>
<th>TABLE 1: Typical Physical Properties¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Hardness, Shore A²</td>
</tr>
<tr>
<td>100% Modulus³, MPa (psi)</td>
</tr>
<tr>
<td>Tensile Strength at Break³, MPa (psi)</td>
</tr>
<tr>
<td>Elongation at Break³, %</td>
</tr>
<tr>
<td>Compression Set⁴, %, 70 hrs. at 204 °C (400 °F)</td>
</tr>
<tr>
<td>Compression Set⁴, %, 70 hrs. at 260 °C (500 °F)</td>
</tr>
<tr>
<td>Maximum Application Temperature⁵, °C (°F)</td>
</tr>
</tbody>
</table>

¹ Not to be used for specification purposes
² ASTM D2240 (plied slab test specimens)
³ ASTM D412 (dumbbell test specimens)
⁴ ASTM D395B & D1414 (AS568 K214 O-ring test specimens)
⁵ DuPont proprietary test method

Compression Stress Relaxation (CSR) in Water⁶ at 225 °C (437 °F), measured at 90 °C (194 °F)

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⁶ O-rings tested by compression stress relaxation per SAE J2979 at 20% compression; Tuckner, Paul, Grace Technology and Development
### TABLE 2: Volume Change (%) comparison between different FFKMs after chemical immersion for 672 Hours. Volume swell is a good predictor of performance and low values typically translate to compatibility in the chemical environment.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Temp. °C (°F)</th>
<th>Kalrez® Spectrum™ 75</th>
<th>FFKM Z-1</th>
<th>FFKM A-1</th>
<th>FFKM A-26</th>
<th>FFKM B-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam</td>
<td>225(437)</td>
<td>A</td>
<td>C</td>
<td>N/A</td>
<td>A</td>
<td>C</td>
</tr>
<tr>
<td>Nitric Acid 70%</td>
<td>85(185)</td>
<td>A</td>
<td>C</td>
<td>C</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Sulfuric Acid 98%</td>
<td>150(302)</td>
<td>A</td>
<td>A</td>
<td>C</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Butyraldehyde</td>
<td>70(158)</td>
<td>A</td>
<td>C</td>
<td>B</td>
<td>B</td>
<td>N/A</td>
</tr>
<tr>
<td>Maleic Anhydride</td>
<td>100(212)</td>
<td>A</td>
<td>B</td>
<td>N/A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td>100(212)</td>
<td>B</td>
<td>B</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
</tbody>
</table>

**Rating system:** A: 0–10% volume swell, B: 11–20% volume swell, C: >20% volume swell

N/A = Test Data Not Available.

7 ASTM D471 (AS568 K214 O-ring test specimens)

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**Long-Term Compression Set in Hot Air** at 260 °C (500 °F)

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