What is Parofluor™?
Parofluor is a unique advanced perfluorinated elastomer (FFKM) developed and produced exclusively by Parker Hannifin’s Seal Group. Perfluorinated elastomers provide performance beyond all other available elastomer families. Parofluor has outstanding retained resiliency as compared with other perfluorinated elastomers, and is formulated specifically for use in the most aggressive sealing applications.

What is Parofluor ULTRA™?
Parofluor ULTRA is a new generation of ultra high-performance perfluorinated elastomers. These materials offer major advantages over traditional fluoroelastomer and other perfluorinated materials:
- Ultra-high temperature resistance (up to 320°C/608°F)
- Broad chemical resistance
- Ultra-high purity

See reverse for Parofluor ULTRA material specifications.

Parofluor Applications:
Parofluor and Parofluor ULTRA materials solve application problems within the critical environments of semiconductor fabrication, aerospace, chemical processing, energy exploration and production, pharmaceutical, and other harsh fluid handling processes.

Parofluor and Parofluor ULTRA materials offer excellent compression set resistance, superior thermal stability and compatibility with a wide range of harsh chemistries, making them the ideal solution for sealing applications that exceed the limits of other high performance elastomers.

Parofluor and Parofluor ULTRA Availability:
Parofluor and Parofluor ULTRA materials are available from 65 to 90 shore A hardness in black and white formulations. Products are available in standard, non-standard, large diameter continuous molded and JIS O-rings, slab or sheet stock, custom molded shapes, PIP (press-in-place) profiles and rubber-to-metal bonded seals.

Parofluor and Parofluor ULTRA Advantages:
- Ultra-high temperature resistance (up to 320°C/608°F)
- Broad chemical resistance
- Excellent compression set resistance
- Economical choice for improved predictability of maintenance intervals
- Ultra High Purity (UHP) manufacturing systems
- In-house tooling capability
- 1-2 weeks standard lead time
- Local stocking distributor network

Parker Advantages:
- Leading technology in elastomer development
- Total sealing product solutions
- Broadest range of material offering
- Finite Element Analysis (FEA)
- Applications engineering assistance
- TOTAL inPHorm™ seal design software assistance

For additional information about Parofluor™ and Parofluor ULTRA™, visit our website www.parofluor.com

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<th>Features</th>
<th>Market</th>
<th>General Application</th>
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<tr>
<td>V1266-65</td>
<td>White</td>
<td>65</td>
<td>-15°C to 30°C (5°F to 572°F)</td>
<td>Acid resistant</td>
<td>Semiconductor</td>
<td>Ion Implant, Metal CVD, Sputtering (PVD), Diffusion Furnaces, LPCVD, RTP, APCVD, HDPCVD, PECVD, Ashing, Plasma Etch, Plasma Strip, Mechanical Seals, Pumps, Valves, Instrumentation, Flow Controls, Metals, Connectors, Sight Glasses, Blenders, Agitators, Mixers, Reactors, Transportation, Energy, Down Hole ( Sour Gas), Drilling Mud, Amine-Based Fluids, Steam, and other aggressive chemicals</td>
</tr>
<tr>
<td>V8545-75</td>
<td>Black</td>
<td>75</td>
<td>-15°C to 30°C (5°F to 572°F)</td>
<td>High temperature, Low compression set, Chemical resistance</td>
<td>Semiconductor</td>
<td>Ion Implant, Metal CVD, Sputtering (PVD), Diffusion Furnaces, LPCVD, RTP, Wafer Etch, Cleaning, Rinsing, Stripping, UPDI, Low contamination from extractables in pharmaceutical and food handling applications where sterilization is required</td>
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<tr>
<td>V8562-75</td>
<td>White</td>
<td>75</td>
<td>-15°C to 30°C (5°F to 572°F)</td>
<td>High temperature, Low compression set, Chemical resistance</td>
<td>Semiconductor</td>
<td>Ion Implant, Metal CVD, Sputtering (PVD), Diffusion Furnaces, LPCVD, RTP, APCVD, HDPCVD, PECVD, Ashing, Plasma Etch, Plasma Strip, Mechanical Seals, Pumps, Valves, Instrumentation, Flow Controls, Metals, Connectors, Sight Glasses, Blenders, Agitators, Mixers, Reactors, Transportation, Energy, Down Hole ( Sour Gas), Drilling Mud, Amine-Based Fluids, Steam, and other aggressive chemicals</td>
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<tr>
<td>V8588-90</td>
<td>Black</td>
<td>90</td>
<td>-15°C to 28°C (5°F to 536°F)</td>
<td>Chemical resistance</td>
<td>Chemical Processing</td>
<td>Chemical Seals, Pumps, Valves, Instrumentation, Flow Controls, Metals, Connectors, Sight Glasses, Blenders, Agitators, Mixers, Reactors, Transportation, Energy, Down Hole ( Sour Gas), Drilling Mud, Amine-Based Fluids, Steam, and other aggressive chemicals</td>
</tr>
<tr>
<td>V8581-90</td>
<td>White</td>
<td>90</td>
<td>-15°C to 30°C (5°F to 572°F)</td>
<td>Chemical resistance</td>
<td>Semiconductor</td>
<td>Ion Implant, Metal CVD, Sputtering (PVD), Diffusion Furnaces, LPCVD, RTP, APCVD, HDPCVD, PECVD, Ashing, Plasma Etch, Plasma Strip, Mechanical Seals, Pumps, Valves, Instrumentation, Flow Controls, Metals, Connectors, Sight Glasses, Blenders, Agitators, Mixers, Reactors, Transportation, Energy, Down Hole ( Sour Gas), Drilling Mud, Amine-Based Fluids, Steam, and other aggressive chemicals</td>
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Parofluor ULTRA™ Materials Offering

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<tr>
<th>Parker Compound</th>
<th>Color</th>
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<th>Temperature Range</th>
<th>Features</th>
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<th>General Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF102-75</td>
<td>Black</td>
<td>75</td>
<td>-15 to 275°C (5°F to 525°F)</td>
<td>Acid resistant</td>
<td>Chemical Processing</td>
<td>Chemical Seals, Pumps, Valves, Instrumentation, Flow Controls, Metals, Connectors, Sight Glasses, Blenders, Agitators, Mixers, Reactors, Transportation, Energy, Down Hole ( Sour Gas), Drilling Mud, Amine-Based Fluids, Steam, and other aggressive chemicals</td>
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<tr>
<td>FF200-75</td>
<td>Black</td>
<td>75</td>
<td>-15°C to 320°C (5°F to 608°F)</td>
<td>High temperature, Low compression set, Chemical resistance</td>
<td>Semiconductor</td>
<td>Thermal Processes: Oxidation, Diffusion, LPCVD, RTP, Plasma/Gas Processes: Metal CVD, Copper, Low compression set, Ashing, Plasma Etch, Plasma Strip, Chemical Seals, Pumps, Valves, Instrumentation, Flow Controls, Metals, Connectors, Sight Glasses, Blenders, Agitators, Mixers, Reactors, Transportation, Energy, Down Hole ( Sour Gas), Drilling Mud, Amine-Based Fluids, Steam, and other aggressive chemicals</td>
</tr>
<tr>
<td>FF350-75</td>
<td>White</td>
<td>75</td>
<td>-15°C to 316°C (5°F to 600°F)</td>
<td>High purity, High temperature, Low compression set</td>
<td>Semiconductor</td>
<td>Thermal Processes: Diffusion Furnaces, RTP, Plasma/Gas Processes: Metal CVD, HDPCVD/PECVD/APCVD, Ashing, Plasma Etch, Plasma Strip, Chemical Seals, Pumps, Valves, Instrumentation, Flow Controls, Metals, Connectors, Sight Glasses, Blenders, Agitators, Mixers, Reactors, Transportation, Energy, Down Hole ( Sour Gas), Drilling Mud, and other aggressive chemicals</td>
</tr>
<tr>
<td>FF352-75</td>
<td>White</td>
<td>75</td>
<td>-15 to 316°C (5°F to 600°F)</td>
<td>Clean, High temperature, Low compression set</td>
<td>Semiconductor</td>
<td>Thermal Processes: Diffusion Furnaces, RTP, Plasma/Gas Processes: Metal CVD, HDPCVD/PECVD/APCVD, Ashing, Plasma Etch, Plasma Strip, Chemical Seals, Pumps, Valves, Instrumentation, Flow Controls, Metals, Connectors, Sight Glasses, Blenders, Agitators, Mixers, Reactors, Transportation, Energy, Down Hole ( Sour Gas), Drilling Mud, and other aggressive chemicals</td>
</tr>
<tr>
<td>FF500-75</td>
<td>Black</td>
<td>75</td>
<td>-15°C to 275°C (5°F to 525°F)</td>
<td>Chemical resistance</td>
<td>Semiconductor</td>
<td>Thermal Processes: Diffusion Furnaces, RTP, Plasma/Gas Processes: Metal CVD, HDPCVD/PECVD/APCVD, Ashing, Plasma Etch, Plasma Strip, Chemical Seals, Pumps, Valves, Instrumentation, Flow Controls, Metals, Connectors, Sight Glasses, Blenders, Agitators, Mixers, Reactors, Transportation, Energy, Down Hole ( Sour Gas), Drilling Mud, Amine-Based Fluids, Steam, and other aggressive chemicals</td>
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