

AUTHORISED  
DISTRIBUTORS OF

**DuPont™**

**Kalrez®**

Perfluoroelastomer Parts (FFKM)



### **Kalrez® parts and seals**

- High Temperature resistance range upto 327°C
- Reliable, long-term sealing in extreme chemical and thermal environments
- Resists over 1800 aggressive chemicals
- Reduce maintenance, operating costs & improve safety

### **Industries we serve:**

- Aerospace
- Semiconductor / Photovoltaic
- Oil, Gas & Petrochemicals
- Chemical Processing
- Pharmaceutical
- Food & Beverages

## **CHIME POLYMERS PRIVATE LIMITED**

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## Pharmaceutical / Food & Beverages

### Kalrez® 6230 & 6221 :

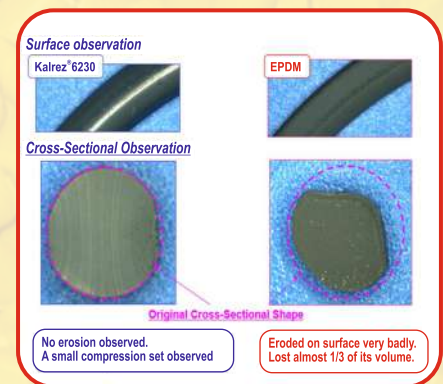
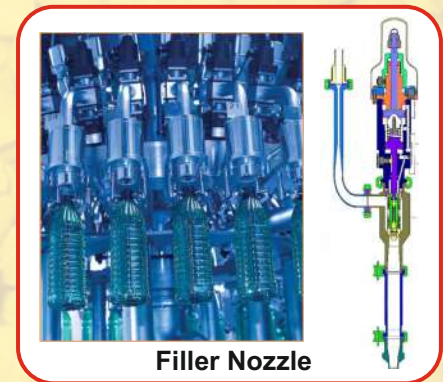
- ▶ High chemical resistance (acids)
- ▶ FDA/USP compliant for clean, high-purity applications
- ▶ Ideal for WFI systems, CIP/SIP cleaning, and critical processes
- ▶ Operates from -20°C to 260°C

### Applications

- ▶ Pharmaceutical : API handling, CIP/SIP cleaning pumps, refractometers
- ▶ Food & Beverages : Filling equipment, sterilization systems, sanitary gaskets

### Key Benefits & Features:

- ▶ Exceptional resistance to chemicals and high temperatures, ensuring hygiene and safety
- ▶ Durable, long-lasting seals that reduce maintenance costs and downtime, increasing productivity



## Aerospace

### Kalrez® Solutions :

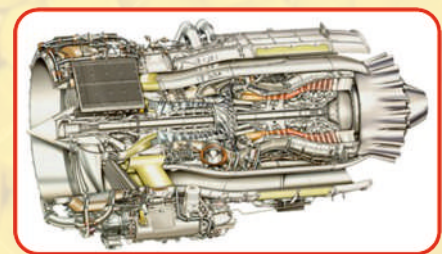
- ▶ Kalrez® 4079 AMS – Resistant to fuels & lubricants, operates up to 316°C
- ▶ Kalrez® 7745 – Withstands jet fuels, high thermal cycling, & oxidizing agents (Nitrogen Tetroxide) operates up to 327°C

### Applications

- ▶ Engine Seals – Oil guide tubes, front & rear bearings
- ▶ Fuel & Hydraulic Systems – Critical components exposed to harsh environments

### Key Benefits & Features:

- ▶ High resistance to extreme temperatures (up to 327°C) and aggressive chemicals
- ▶ Exceptional durability & reliability in demanding aerospace conditions
- ▶ Enhances safety & performance in fuel, hydraulic, and engine systems
- ▶ Reduces maintenance cycles, ensuring long-term operational efficiency





## Oil, Gas & Petrochemicals

### Kalrez® Solutions :

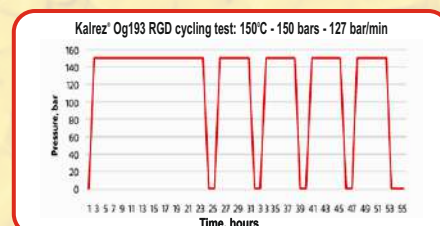
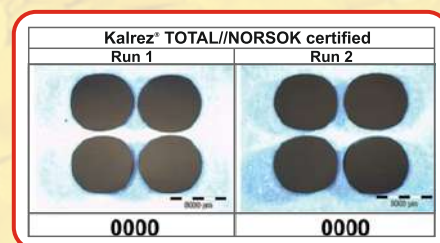
- ▶ Kalrez® 0090 – Resists hydrocarbons, sour gas, and amines; operates up to 250°C
- ▶ Kalrez® OG 193 – Exceptional thermal & chemical stability, withstands HPHT conditions, operates up to 327°C

### Applications

- ▶ Pumps, Compressors, Valves, & Fittings – Critical sealing in extreme conditions
- ▶ Equipment handling aggressive chemicals & mixed streams

### Key Benefits & Features:

- ▶ Superior chemical resistance at extreme temperatures and pressures
- ▶ Reliable, long-lasting performance in harsh environments
- ▶ Enhanced safety with minimal leakage and high process reliability
- ▶ Extended seal lifespan, reducing maintenance and operational costs



## Chemical Processing

### Kalrez® Solutions :

- ▶ Kalrez® 6375 – General chemical processing, operates up to 275°C
- ▶ Kalrez® 7075 – High-pressure, high-temperature applications, up to 327°C
- ▶ Kalrez® 6380 – High-purity chemical processes, operates up to 315°C

### Applications

- ▶ Sealing Equipment
- ▶ Valves & Flanges
- ▶ Steam Systems
- ▶ Mixed Chemical Streams

### Key Benefits & Features:

- ▶ Exceptional chemical resistance to acids, bases, solvents, and corrosive fluids
- ▶ High-temperature durability, retaining sealing integrity up to 327°C
- ▶ Reliable & long-lasting performance, reducing maintenance costs
- ▶ Enhances safety & operational efficiency, ensuring cost savings



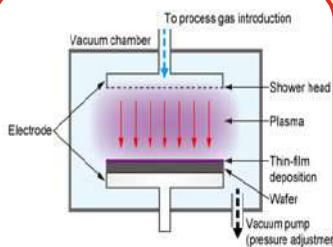
## Semiconductor Applications

1. Plasma Etching & Ashing
2. Chemical Vapor Deposition (CVD) & Physical Vapor Deposition (PVD)
3. Lithography & Wet Chemical Processing
4. Thermal Processing & Vacuum Systems
5. CMP (Chemical Mechanical Planarization) & Slurry Handling

Kalrez® Grade	Application	Maximum Temperature	Process Type	Chemistries
Kalrez® 9100/9500	Plasma Processes	150°C to 300°C	HDPCVD, SACVD/FCVD, Conductor Etch	TMS, TEOS, O <sub>2</sub> , NH <sub>3</sub> , CF <sub>4</sub> , NF <sub>3</sub> , HBr, SiF <sub>4</sub> , and similar.
Kalrez® 9600	PECVD/PEALD	Up to 275°C	Plasma Processes	TMS, DEMS, SiH <sub>4</sub> , N <sub>2</sub> O, NH <sub>3</sub> , and similar.
Kalrez® 8705/9300	PECVD Curing, Ash/Strip	150°C to 250°C	Plasma Processes	O <sub>2</sub> , UV light, CHF <sub>3</sub> , H <sub>2</sub> O vapor, Forming gas.
Kalrez® 8900/7075UP	Thermal Processes (ALD/LPCVD)	250°C to 300°C	Plasma Processes	Wf <sub>6</sub> , TiCl <sub>4</sub> , HF, F <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> O, Cl <sub>2</sub>
Kalrez® 7075UP/8900	Oxidation/Nitridation	280°C to 300°C	Thermal Processes	N <sub>2</sub> , H <sub>2</sub> O vapor, HCl, Cl <sub>2</sub> , O <sub>2</sub>
Kalrez® 8575	Lamp Anneal / RTP	250°C to 275°C	Thermal Processes	Infrared light O <sub>2</sub> , H <sub>2</sub> O vapor.
Kalrez® 9300/9600	Wafer Surface Prep, Wet Processes	200°C to 275°C	Wafer Surface Prep, Ash/Strip	NF <sub>3</sub> , HF, H <sub>2</sub> , NH <sub>3</sub> , EKC fluids.
Kalrez® W240UP	Etching, Stripping, Copper Plating	70°C to 125°C	Wet Processes	HNO <sub>3</sub> , HF, NH <sub>4</sub> OH, NMP, acetone, DMSO, CuSO <sub>4</sub> solution, H <sub>2</sub> SO <sub>4</sub>



Semi Conductor Manufacturing



Plasma Etching



Wet Process



Rapid Thermal Processing (RTP)