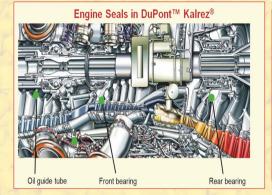
### DuPont™ Kairez® for AEROSPACE





#### Features:

Outstanding thermal stability
Excellent compression set resistance
Excellent resistance to lubricating oils

#### **Benefits:**

High Temperature Sealing Long Life

#### Kalrez® Aeroseal 7745

- Excellent resistance to aggressive oxidizing media like Nitrogen Tetroxide. It has been a product of choice for hypergolic propellent applications
- Maximum service temperature of 240°C is suggested.
- Typical applications include sealing rocket propellents, hot oxidizing acids, wet halogens and halogenated gases.
- Lower volume swell and good compression set properties at higher temperatures.

#### Kalrez® 4079 AMS

- Kalrez® 4079AMS is a speciality black product
- Outstanding thermal stability, excellent compression set resistance and good seal force retention properties.
- Excellent resistance to HTS (High Thermo-Oxidative Stability) gas turbine engine lubricating oils

#### Kalrez® AeroSeal 7777

- Kalrez® AeroSeal 7777 is a speciality black product
- Outstanding thermal stability and compression set resistance along with excellent seal force retention properties.
- Excellent response to temperature cycling effects
- A maximum continuous service temperature of 325°C (617°F) is suggested.

#### Kalrez® AeroSeal 7797

- Kalrez® AeroSeal 7797 is a speciality black product
- Used in applications requiring higher hardness/higher modulus properties.
- Excellent mechanical Properties and is well suited for both static and dynamic sealing applications.

**AUTHORISED DISTRIBUTORS OF** 

## DuPont™ Kalrez®

**Perfluoroelastomer Parts (FFKM)** 





## Kalifez<sup>®</sup> parts and seals

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

#### **Applications:**

- Aerospace
- Photovoltaic
- Semiconductor Processing Seals
- Pharmaceutical
- Food & Beverages:

#### CHIME POLYMERS PRIVATE LIMITED

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# DuPont™ Kalrez® for Pharmaceutical / Food & Beverages



# DuPort<sup>to</sup> Malrez® for Pharmaceutical / Food & Beverages

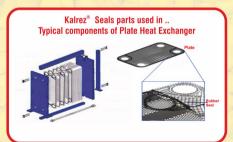


# The seal to trust for Tough Sealing Applications Auto plane a wignest (Observed at Lab.)

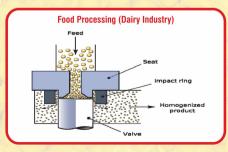


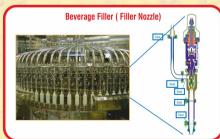












#### Kalrez® in Food & Beverages:

- Homogenizing equipment
- Stirrers
- Sterilization processes
- Seals for filling equipment
- O-rings and sanitary gaskets
- Bottling and filling equipment

#### **Kalrez**<sup>®</sup> in Pharmaceutical production:

- Safety Valves
- Butterfly Valves
- Mechanical Seals
- Granulators
- Sanitary Seals

#### Kalrez<sup>®</sup> in Medical Packaging

- Aerosol rings
- Microvalves
- Needle covers
- Serum stoppers
- Plungers
- Infusion hangers

TEMPERATURE RESISTANCE Up to 160° C sterilization (260° C upper continuous service temperature for Kalrez® FDA grades)

Cyclic Condition (Thermal Cycling)

CHEMICAL RESISTANCE
 SIP – Sterlization with pure steam,
 EO, H202, acetone

CIP – Acid cleaning, Base cleaning, alternating cleaning cycles.

Any chemicals used in production process

- ▶ Compliant with US FDA, USP class VI and Japan Pharmacopoeia
- ► Kalrez® parts have very low extractables
- Sealing retainability in harsh conditions.
- Good compression set property for long time sealing.
- Minimal volume swell inturn has minimal to no flavour retention
- Withstand high processing temperatures, pressures