

# DuPont™ Kalrez® Spectrum™ 7275 Perfluoroelastomer Parts

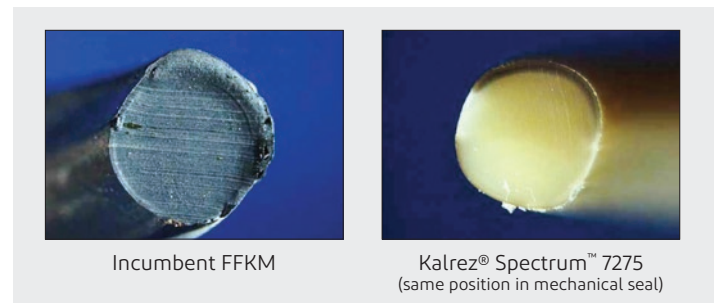
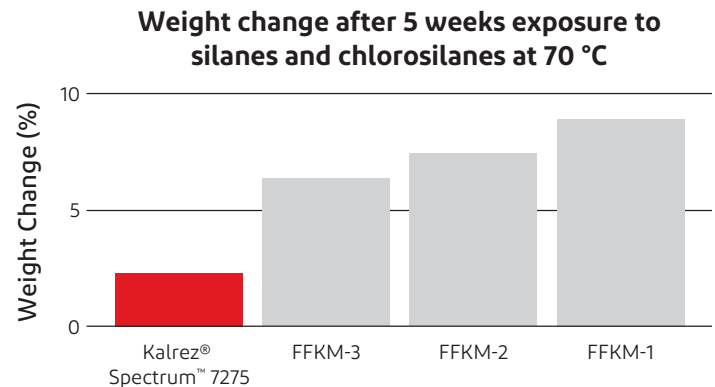
O-rings for mechanical seals in silicon chemicals

Silicon chemicals are used to manufacture a wide range of industrial materials including coatings, adhesives or elastomers. Chlorosilanes, a very reactive group of chemical compounds, are used as the main base material for the manufacturing of microelectronics. After trying different FFKMs, a major manufacturer of silicon chemicals has selected Kalrez® Spectrum™ 7275 as the preferred elastomer for mechanical seals of pumps handling aggressive silanes and chlorosilanes.

- **Chemicals and cleaning:** Silanes and chlorosilanes
- **Process conditions:** Above 110 °C
- **Incumbent solution:** Various competitive FFKM
- **Performance challenge:** Insufficient lifetime vs. customer expectations (swelling and blistering)

## Kalrez® Spectrum™ 7275 benefits:

- Kalrez® Spectrum™ 7275 O-rings extended the Mean Time Between Repair (MTBR) of this mechanical seal by at least 30%.
- While the incumbent FFKM O-ring showed signs of severe swelling and blistering, Kalrez® Spectrum™ 7275 seal had only superficial color change, with minimum swelling and unchanged flexibility (see pictures).



The performance is based on tests performed by the customer. Since conditions of use are outside DuPont's control, DuPont assumes no liability in connection with any use of this information. This data should not be used to establish specification limits.

Visit us at [kalrez.com](http://kalrez.com)

The information set forth herein is furnished free of charge, is based on technical data that DuPont believes to be reliable and represents typical values that fall within the normal range of properties. This information relates only to the specific material designated and may not be valid for such material used in combination with other materials or in other processes. It is intended for use by persons having technical skill, at their own discretion and risk. This information should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their conditions of use present no health or safety hazards and comply with applicable law. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

CAUTION: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with the DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative.

DuPont's sole warranty is that our products will meet our standard sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DUPONT SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR NON INFRINGEMENT. DUPONT DISCLAIMS LIABILITY FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, ® or © are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted. © 2022 DuPont. All rights reserved.

(02/2022) Reference: KZE-A40075-00-B0222