

A comparison of Kalrez® 4079 and Kyflon™ 3000



Kalrez 4079 perfluoroelastomer o-rings were introduced in the 1980's. Kalrez o-rings are effective sealing elements in high-heat and aggressive chemical environments. Kalrez is "A" rated in more than 1800 chemicals and has a maximum continuous service temperature rating of 600°F/316°C.

Kyflon 3000 has been on the market for more than ten years and its chemical structure is based on the advancements that have been made in perfluoroelastomer polymer technology. Kyflon 3000 is also "A" rated in more than 1800 chemicals and has a maximum continuous service temperature rating of 590°F/310°C.

While Kalrez 4079 exhibits 37% compression set (@ 25% Deflection 70 Hours @ 400°F/204°C in air), Kyflon 3000 has only 10% compression set in these same conditions. The amount of compression set (typically seen as "flat" spots) o-ring experiences plays an important role in how well it seals in most applications. Clearly Kyflon has a clear advantage over Kalrez 4079 in this important aspect of sealing performance.

Kyflon 3000 o-rings also have a significant cost advantage over Kalrez o-rings and typically are 25% to 30% less expensive to purchase.

Kyflon o-rings are used in mechanical seals, couplings, pumps, and valves. They reduce downtime and extend the mean time between replacements.

Kyflon™ is a trademark of Process Technologies, Inc.

Kalrez® is a registered trademark of DuPont Polymers Inc.

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty for this product.

Prior to actual use it is highly recommended that suitable tests be run to determine this product's suitability in a specific application. This is critical where failure could result in injury or damage.

The High Performance Seal Division of PTI, Inc. offers over 20 different Kyflon perfluoroelastomer compounds in the form of molded and vulcanized o-rings, cord, tubing and custom parts. Kyflon compounds are used in a wide range of industries to seal against solvents, amines, chemicals, high temperatures and steam.

Contact us today to speak with us about the optimum Kyflon products for your applications.

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07/2019