

DuPont™ Kalrez® Perfluoroelastomers

Sealing performance where it matters most.

INCREASED SYSTEM EFFICIENCY, RELIABILITY AND SAFETY

Kalrez® Spectrum™ 6380 parts

Total cost analysis example

	Current Elastomer Material	Kalrez® perfluoroelastomer parts
Cost of Elastomeric Seal	0	100
Installation Cost per Seal	100	100
Number of units	1	1
Total Cost of Installed Seals	100	200
Downtime Cost of Seal Failure	1000	1000
Mean Time Between Repairs (in months)	0.5	3.5
Expected Equipment Lifetime (in years)	1	1
Expected Number of Repairs over lifetime	23	3
Total Cost for Seals	2400	800
Total Downtime Cost	23000	3000
Total Lifecycle Cost for System	25400	3800
Life Cycle Cost Savings		21600

Application example

- Mix of Ethylene Oxide, amines, others at 150°C
- Incumbent broad chemical resistance competitive FFKM grade survived 15 days

Cost of O-rings

- Assuming free O-ring for competitive FFKM
- 100 € for a Kalrez® Spectrum™ 6380 O-ring

Installation cost for the O-ring

- Conservative cost can be around 100€

Downtime cost for seal failure

- Combination of maintenance cost and loss of production
- Conservative cost can be around 1000 €

Increased system efficiency reduces total system cost: 21'000 € saving / year

Thanks to Kalrez® Spectrum™ 6380, the lifetime in this example increases from 15 days to 3.5 months (7 times more), allowing a total saving of about 21'000 € in one year, despite the cost difference of the O-ring itself.

Increased reliability – up to 7 times longer life time

The increased life time gives the opportunity to significantly increase the meantime between maintenance while preserving production reliability.

Increased safety

Ethylene oxide is a potentially hazardous material, and the improved performance of the sealing solution can help reduce the risk of leaks and chemical exposure.



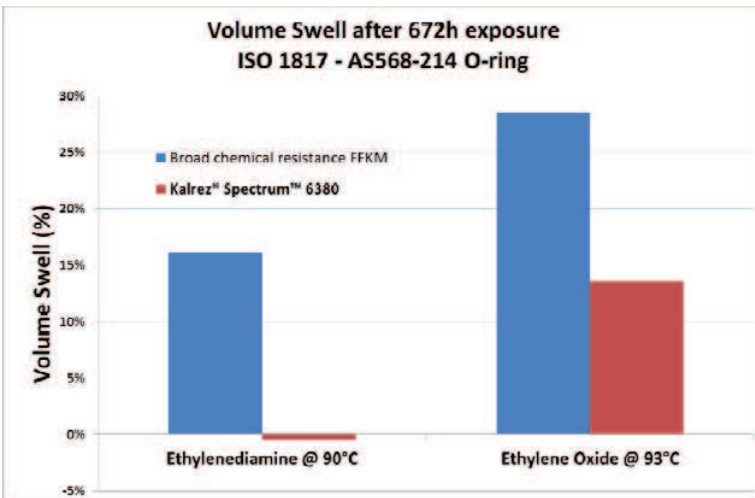
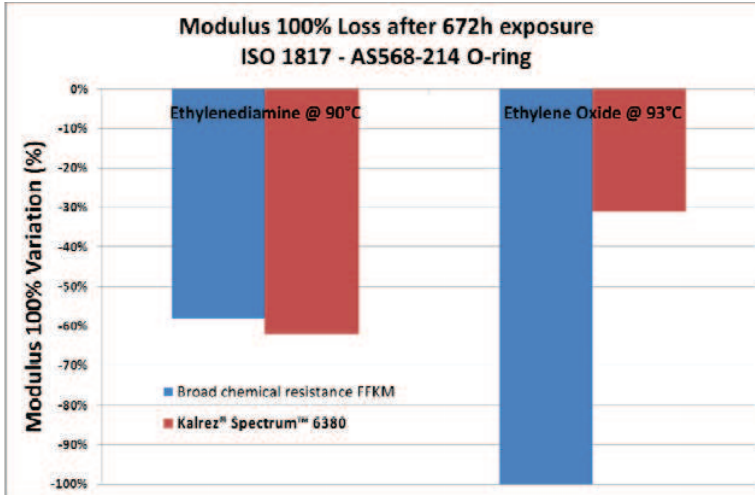


The miracles of science™

DuPont™ Kalrez® Perfluoroelastomers

Product performance data

Kalrez® Spectrum™ 6380 mechanical performance in ethylene oxide and ethylenediamine



North America

+800-222-8377

Latin America

+0800 17 17 15

ASEAN

+65-6586-3688

Japan

+81-3-5521-8484

Greater China

+86-400-8851-888

Europe / Middle East / Africa

DuPont International Operations Sàrl
Geneva, Switzerland
Tel +41 22 717 51 11

Kalrez.dupont.com

Vespel.dupont.com

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