



Kalrez[®] perfluoroelastomer parts

From DuPont Performance Elastomers

Kalrez[®] 3065

Product Description

Kalrez[®] 3065 is a highly-filled product containing carbon black and fiber reinforcement, designed to function without extrusion under extreme pressure. It has good all round chemical resistance and excellent resistance to sour oil and amines. Kalrez[®] 3065 has an upper service temperature of 288°C (550°F).

The mechanical properties and chemical resistance of Kalrez[®] 3065 make it the best choice for many oil and gas well applications. In these applications it is normally used in the form of V-rings and other custom parts rather than O-rings.

The physical properties of Kalrez[®] 3065 are as follows:

Typical Physical Properties¹

| | |
|--|------------------|
| Hardness ² , Shore A (pellets) ± 5 | 90 |
| 100% Modulus ³ , MPa (psi) | N/A ⁷ |
| Tensile Strength at Break ³ , MPa (psi) | 24.10(3495) |
| Elongation at Break ³ , % | 30 |
| Compression Set ⁴ , 70 hr at 204°C (400°F), % | N/A |
| Brittle Point ⁵ , °C | -23 |
| Maximum continuous service temperature ⁶ , °C(°F) | 288 (550) |

¹ Not to be used for specifications

² ASTM D2240

³ ASTM D412, 500 mm/min (20/μm)

⁴ ASTM D395 B, pellets

⁵ ASTM D746

⁶ DuPont Performance Elastomers proprietary test method

⁷ N/A = Not applicable

Chemical Resistance

| | Kalrez [®] 3065 |
|--------------------------|--------------------------|
| Aromatic/Aliphatic oils | +++ |
| Acids | ++ |
| Alkalis | ++ |
| Alcohols | +++ |
| Aldehydes | +++ |
| Amines | +++ |
| Ethers | +++ |
| Esters | +++ |
| Ketones | +++ |
| Steam/Hot water | ++ |
| Strong Oxidizers | 0 |
| Ethylene/Propylene Oxide | -- |

+++ = Excellent ++ = Very Good + = Good 0 = Marginal -- = Poor --- = Not Recommended

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