

# DuPont™ Kalrez® 3065

Technical Information — Rev. 3, July 2010

## Product Description

DuPont™ 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 Properties<sup>1</sup>

---

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

---

<sup>1</sup> Not to be used for specifications

<sup>2</sup> ASTM D2240

<sup>3</sup> ASTM D412, 500 mm/min (20/μm)

<sup>4</sup> ASTM D395 B, pellets

<sup>5</sup> ASTM D746

<sup>6</sup> DuPont Performance Polymers proprietary test method

<sup>7</sup> N/A = Not applicable



*The miracles of science™*

Chemical Resistance	DuPont™ 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

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

Contact DuPont at the following regional locations:

**North America**

800-222-8377

**Latin America**

+0800 17 17 15

**Europe, Middle East, Africa**

+41 22 717 51 11

**Greater China**

+86-400-8851-888

**ASEAN**

+65-6586-3688

**Japan**

+81-3-5521-8484

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data 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 particular conditions of use present no health or safety hazards. 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 in medical applications involving permanent implantation in the human body. For other medical applications, discuss with your DuPont customer service representative and read Medical Caution Statement H-50103-3.

Copyright © 2010 DuPont. The DuPont Oval Logo, DuPont™, The miracles of science™, Kalrez®, and Vespel® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

(04/04) Reference No. KZE-A10295-00-C0710



*The miracles of science™*