

DuPont™ Kalrez® OG193



For Oil and Gas Applications Requiring High Rapid Gas Decompression (RGD) Resistance in a Broad Range of Temperatures, Conditions and Part Configurations

Product technical Information – January 2023

Product Description

DuPont™ Kalrez® OG193 is a 95 durometer, FFKM compound that exhibits an excellent balance of properties for oil and gas applications. Kalrez® OG193 combines best-in-class Rapid Gas Decompression (RGD) performance and chemical resistance with good low temperature and thermal stability. This product also offers excellent versatility that allows it to be used for a variety of key parts including O-Rings, Packers, Bonded Seals, Chevron Stacks, T-Seals, and many others. It is an ideal fit for various applications in both upstream and downstream, such as oilfield production/completion equipment, wireline and drilling tools, pumps, mechanical seals, valves, compressors and many more!

TABLE 1: Typical Physical Properties¹

Color	Black
Hardness, Shore A ²	94
50% Modulus ³ , MPa (psi)	13 (1850)
Tensile Strength at Break ³ , MPa (psi)	22 (3150)
Elongation at Break ³ , %	100
Compression Set ⁴ , %, 70 hrs. at 204 °C (400 °F)	29
Upper Service Temperature ⁵ , °C (°F)	250 (482)
Lower Service Temperature ⁵ , °C (°F)	-31 (-24)
Temperature retraction - TR10 ⁶ , °C (°F)	-10 (14)
Rapid Gas Decompression ⁷	0000-0000-0000

¹ Not to be used for specification purposes

² ASTM D2240 (slab test specimens)

³ ASTM D412 (dumbbell test specimen)

⁴ ASTM D395B (AS568 K214 O-ring test specimens)

⁵ DuPont proprietary test method (anaerobic conditions)

⁶ ISO 2921 Temperature retraction

⁷ Rapid Gas Decompression, ISO 23936-2

Visit us at kalrez.com

dupont.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.

© 2023 DuPont. All rights reserved.

Reference: KZE-A40076-00-B1019



VARISCO & CO