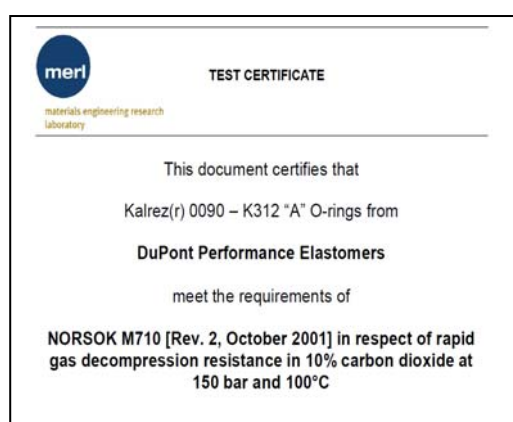




**Kalrez®** perfluoroelastomer parts

From DuPont Performance Elastomers

## Kalrez® 0090 Meets Norsok M-710 Rev. 2 Requirements for Rapid Gas Decompression



Kalrez® 0090 perfluoroelastomer parts, the latest product from DuPont Performance Elastomers, are specifically designed for the oil and gas industry to provide outstanding resistance to rapid gas decomposition (RGD), as well as broad chemical resistance, the standard for Kalrez® parts. In testing conducted by the Materials Engineering Research Laboratory (MERL), Kalrez® 0090 was given the highest rating, "0", indicating "no internal cracks, holes or blisters of any size." Kalrez® 0090 perfluoroelastomer parts are the only FFKM parts that have been independently tested and certified by MERL to meet Norsok M-710 requirements. As a result of this groundbreaking development, industries that

require elastomer seals to resist rapid gas decomposition and perform in harsh chemical environments like downhole oil and gas production and chemical processing, can increase uptime through improved meantime between failure with Kalrez® 0090.

### Typical Physical Properties <sup>1</sup>

Color	Black
Hardness, Durometer Shore A <sup>2</sup>	95
50% Modulus <sup>3</sup> , MPa (psi)	14.18 (2057)
Tensile Strength at Break <sup>3</sup> , MPa (psi)	19.49 (2827)
Elongation at Break <sup>3</sup> , %	80
Compression Set <sup>4</sup> , %	
70 hrs. at 200°C (392°F)	40
Upper Service Temperature, °C (°F) <sup>5</sup>	250 (482)
Volume Swell <sup>6</sup> , (% Change)	
Steam, 225°C (437°F), 672 Hours	< 5
Ethylenediamine, 90°C (194°F), 70 Hours	< 5

<sup>1</sup>Not to be used for specification purposes

<sup>2</sup>ASTM D2240 (pellet test specimens)

<sup>3</sup>ASTM D412 (AS568 K214 O-ring test specimens)

<sup>4</sup>ASTM D395B (AS568 K214 O-ring test specimens)

<sup>5</sup>DuPont Performance Elastomers proprietary test method

<sup>6</sup>ASTM D471 (AS568 K214 O-ring test specimens)

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**Caution:** Do not use in medical applications involving permanent implantation in the human body. For other medical applications, discuss with your DuPont Performance Elastomers customer service representative and read Medical Caution Statement H-69237.

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