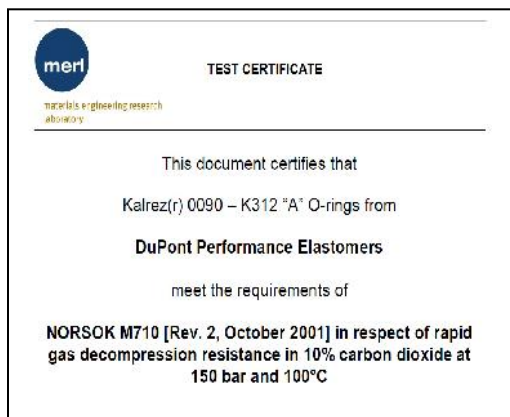


DuPont™ Kalrez® 0090 Meets Norsok M-710 Rev. 2 Requirements for Rapid Gas Decompression

Technical Information — Rev. 1, July 2010



DuPont™ Kalrez® 0090 perfluoroelastomer parts, the latest product from DuPont Performance Polymers, have been developed to provide outstanding resistance to rapid gas decompression (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 of "0000". Kalrez® 0090 perfluoroelastomer parts are the only FFKM parts that have been independently tested and certified by MERL to meet Norsok M-710 requirements.

Typical Physical Properties¹

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

¹ Not to be used for specification purposes

² ASTM D2240 (pellet test specimens)

³ ASTM D412, (AS568 K214 O-ring test specimens)

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

⁵ DuPont Performance Polymers proprietary test method

⁶ ASTM D471 (AS568 K214 O-ring test specimens)



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(12/09) Reference No. KZE-A10821-00-B0710



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