

RINGS, SEALING, PHOSPHONITRILIC FLUOROELASTOMER
High-Temperature-Fluid Resistant
75 - 85
FZ Type

1. SCOPE:

- 1.1 Form: This specification covers one type of phosphonitrilic fluoroelastomer in the form of molded rings.
- 1.2 Classification: Rings having nominal hardness of 80 Durometer A or equivalent.

2. APPLICABLE DOCUMENTS: Shall be as shown in AMS 7261.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification: The complete requirements for procuring the sealing rings described herein shall consist of this document and the latest issue of the basic specification, AMS 7261.

3.2 Properties: Shall be as follows:

3.2.1 As Received:

- | | | |
|---------|-----------------------------------|-----------------------------------|
| 3.2.1.1 | Hardness, Durometer "A" or equiv. | 80 \pm 5 |
| 3.2.1.2 | Tensile Strength, min | 900 psi
(6.20 MPa) |
| 3.2.1.3 | Elongation, min | 75% |
| 3.2.1.4 | Specific Gravity | Preproduction
Value \pm 0.02 |

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3.2.2 Aromatic Fuel Resistance:ASTM Reference Fuel B
(ASTM D471)3.2.2.1 Hardness Change, Durometer
"A" or equiv. 0 to -10Temperature: 20° - 30°C
(68° - 86°F)
Time: 22 hr \pm 0.253.2.2.2 Tensile Strength Change
max -20%

3.2.2.3 Elongation Change, max -15%

3.2.2.4 Volume Change +1 to +20%

3.2.3 Synthetic Lubricant Resistance:Medium: AMS 3021 fluid
(See 8.1)3.2.3.1 Hardness Change, Durometer
"A" or equiv. 0 to -10Temperature: 150°C \pm 3
(302°F \pm 5)
Time: 70 hr \pm 0.53.2.3.2 Tensile Strength Change
max -20%

3.2.3.3 Elongation Change, max -15%

3.2.3.4 Volume Change +1 to +20%

3.2.4 Dry Heat Resistance:Temperature: 175°C \pm 3
(347°F \pm 5)3.2.4.1 Hardness Change, Durometer
"A" or equiv. -10 to +10Time: 70 hr \pm 0.5)3.2.4.2 Tensile Strength Change,
max -20%

3.2.4.3 Elongation Change, max -20%

3.2.4.4 Weight Loss, max 2%

3.2.5 Compression Set:Percent of Original
Deflection, max3.2.5.1 After 22 hr \pm 0.25 at
175°C \pm 3 (347°F \pm 5) 45%3.2.5.2 After exposure to AMS 3021
fluid as in 3.2.3 30%