

Submitted for recognition as an American National Standard

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Superseding AMS 7261/1C

**RINGS, SEALING, PHOSPHONITRILIC (FZ) FLUOROELASTOMER
High-Temperature-Fluid Resistant
65 - 75**

1. SCOPE:

- 1.1 Form: This specification covers one type of phosphonitrilic (FZ) fluoroelastomer in the form of molded rings.
- 1.2 Classification: Rings having nominal hardness of 70 Durometer A, or equivalent.

2. APPLICABLE DOCUMENTS: See 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 equivalent | 70 ± 5 |
| 3.2.1.2 | Tensile Strength, minimum | 900 psi
(6.21 MPa) |
| 3.2.1.3 | Elongation, minimum | 100% |
| 3.2.1.4 | Specific Gravity | Preproduction
Value ± 0.02 |
| 3.2.1.5 | Temperature Retraction
TR ₁₀ Point, maximum | -55°C
(-67°F) |

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3.2.2 Aromatic Fuel Resistance:ASTM Reference Fuel B
(ASTM D 471)3.2.2.1 Hardness Change, Durometer "A"
or equivalent

0 to -10

Temperature: 20° - 30°C
(68° - 86°F)

Time: 22 hours ± 0.25

3.2.2.2 Tensile Strength Change, maximum

-25%

3.2.2.3 Elongation Change, maximum

-15%

3.2.2.4 Volume Change

+1 to +20%

3.2.3 Synthetic Lubricant Resistance:

Medium: AMS 3021

Temperature: 150°C ± 3

(302°F ± 5)

3.2.3.1 Hardness Change, Durometer "A"
or equivalent

0 to -10

Time: 70 hours ± 0.5

3.2.3.2 Tensile Strength Change, maximum

-20%

3.2.3.3 Elongation Change, maximum

-15%

3.2.3.4 Volume Change

+1 to +20%

3.2.3.5 Compression Set, maximum

30%

3.2.3.6 Temperature Retraction
TR₁₀ Point, maximum-55°C
(-67°F)3.2.4 Dry Heat Resistance:

Temperature: 175°C ± 3

(347°F ± 5)

3.2.4.1 Hardness Change, Durometer "A"
or equivalent

-10 to +10

Time: 70 hours ± 0.5

3.2.4.2 Tensile Strength Change, maximum

-20%

3.2.4.3 Elongation Change, maximum

-45%

3.2.4.4 Weight Loss, maximum

2%

3.2.4.5 Temperature Retraction
TR₁₀ Point, maximum-55°C
(-67°F)3.2.5 Compression Set:

Percent of Original Deflection, maximum

3.2.5.1 After 22 hours ± 0.25 at 175°C ± 3
(347°F ± 5)

45%