

Submitted for recognition as an American National Standard

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Superseding AMS 7261/2B

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

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 80 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 80 ± 5

3.2.1.2 Tensile Strength, minimum 900 psi
(6.21 MPa)

3.2.1.3 Elongation, minimum 75%

3.2.1.4 Specific Gravity Preproduction
Value ± 0.02

3.2.1.5 Temperature Retraction
TR₁₀ 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 -10Temperature: 20° - 30°C
(68° - 86°F)

Time: 22 hours ± 0.25

3.2.2.2 Tensile Strength Change,
maximum -20%

3.2.2.3 Elongation Change, maximum -15%

3.2.2.4 Volume Change +1 to +20%

3.2.3 Synthetic Lubricant Resistance:
ØMedium: ARM-100 fluid
(See 8.1)Temperature: 150°C ± 3
(302°F ± 5)

Time: 70 hours ± 0.5

3.2.3.1 Hardness Change, Durometer
"A" or equivalent 0 to -103.2.3.2 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 -20%

3.2.4.4 Weight Loss, maximum 2%

3.2.4.5 Temperature Retraction
TR₁₀ Point, maximum -55°C
(-67°F)