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AEROSPACE MATERIAL SPECIFICATION



AMS 7261/2F

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Superseding AMS 7261/2E

Rings, Sealing, Phosphonitrilic (FZ) Fluoroelastomer
High-Temperature-Fluid Resistant

75 - 85

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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 \pm 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 \pm 0.02
3.2.1.5 Temperature Retraction TR ₁₀ Point, maximum	-55°C (-67°F)
3.2.2 Aromatic Fuel Resistance:	ASTM Reference Fuel B (ASTM D 471)
3.2.2.1 Hardness Change, Durometer "A" or equivalent	Temperature: 20° - 30°C (68° - 86°F) Time: 22 hours \pm 0.25
	0 to -10

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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:		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 TR ₁₀ 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 TR ₁₀ Point, maximum	-55°C (-67°F)		
3.2.5	Compression Set:			
	Percent of Original Deflection, maximum			