

Parco

9266-75 Fluorocarbon Seals



Need O-rings for AMS 7276 Tomorrow?

Parco is committed to being the leading supplier of O-rings for AMS 7276. Seals made from our popular 75-durometer fluorocarbon 9266-75 have outstanding physical properties and are competitively priced.

9266-75 Meets Your Needs

1. Exceeds AMS 7276

Parco O-rings made from our 75-durometer fluorocarbon compound 9266-75 exceed the requirements of AMS 7276 (see test report on reverse side). Our compound is also on the Department of Defense Qualified Products List (QPL). Parco supplies seals to 28 military and aerospace specifications. Our quality system is certified to ISO 9001, ISO/TS 16949, AC7115, and AS9100. So when you specify 9266-75, rest assured that you've made the right choice.

2. Excellent Resistance to Compression Set

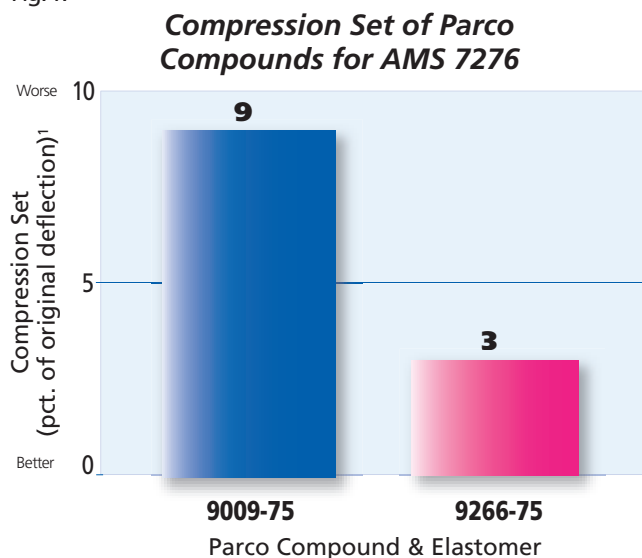
To perform properly, most seals must resist taking a set from compression after being installed. When a seal takes a set, it no longer exerts force on the mating surfaces, resulting in leakage. A compound with low compression set, like 9266-75, better maintains its elastomeric properties and original thickness, preserving seal integrity. Seals

made from Parco's 9266-75 compound provide excellent resistance to compression set (see Figure 1). After testing 9266-75 for 22 hours at 392°F, it had a compression set of only 3 percent.

3. Huge Inventory

We carry more than 2 million pieces of 9266-75. And we stock all 369 standard sizes. We've also made it easy to check stock 24 hours a day using our web site. If we receive your order before 2:30 p.m. Pacific time, you can receive your parts as soon as the next business day.

Fig. 1:



¹Compression set calculated after 22 hours at 200°C (392°F).
Source: Parco Test Reports.

Parco seals made from 9266-75 offer improved compression set resistance compared to our other material approved for AMS 7276.

Key Features

Parco's 9266-75 fluorocarbon seals are ideal for military and aerospace applications. Key features include the following:

- **Meets popular military specification:**
Parco 9266-75 seals exceed the requirements for AMS 7276 and is QPL-listed.
- **Wide range of service temperatures:**
Parco 9266-75 seals are suitable for applications ranging from -20 to +400°F.

Chemical Resistance

USE WITH	DO NOT USE WITH
Carbon Tetrachloride Diester Synthetic Lubricants Gasoline Hot Air Toluene	Acetone Amines Ethyl Acetate

Typical Values for Compound 9266-75 75-durometer fluorocarbon for AMS 7276

Section of Spec.	Physical Property	Requirement ¹	Typical Value	ASTM ² Test Method
	Original Properties			
Z1	Hardness, Shore A	75 ± 5	74	D2240
	Tensile strength, MPa (psi), min.	10(1450)	15.5(2253)	D412
Z2	Ultimate elongation, pct., min.	150	184	D412
Z3	Modulus at 100 pct. elongation, psi	Report	976	D412
Z4	Specific gravity	Report	1.85	D297
Basic	Fluid Aging, IRM³ 903 Oil 70 hours at 150°C (302°F) Volume change, pct., max.	10	2	D471
A1-10	Heat Aging 70 hours at 250°C (482°F) Hardness change, pts., Shore A, max. Tensile strength change, pct., max. Ultimate elongation change, pct., max.	10 -25 -25	1 -21 -5	D573
B38	Compression Set, Plied 22 hours at 200°C (392°F) pct. of original deflection, max.	15	3	D395 Method B
EF31	Fluid Aging, ASTM Reference Fuel C 70 hours at 23°C (73°F) Hardness change, pts., Shore A Tensile strength change, pct., max. Ultimate elongation change, pct., max. Volume change, pct.	±5 -25 -20 0 to 10	-2 -5 11 2	D471
EO88	Fluid Aging, Hatco 7700 70 hours at 200°C (392°F) Hardness change, pts., Shore A Tensile strength change, pct., max. Ultimate elongation change, pct., max. Volume change, pct., max.	-15 to 5 -40 -20 25	-13 -11 1 17	D471

¹Compound 9266-75 meets the requirements shown above for ASTM D2000 M6HK710 A1-10 B38 EF31 EO88 Z1 Z2 Z3 Z4. Compound 9266-75 also meets the requirements of Aerospace Material Specification AMS 7276 Rev. G, *Rings, Sealing, Fluorocarbon (FKM) Rubber High-Temperature-Fluid Resistant Low Compression Set 70 to 80*. The properties reported are typical for compound 9266-75 but do not reflect the requirements of AMS 7276 Rev. G. ²ASTM is the initialism for the American Society for Testing and Materials. ³IRM is the initialism for Industry Reference Material.

Source: Parco Test Report 8200D.

⚠ This brochure is intended as a guideline and reference. Appropriate testing and validation by users having technical expertise is necessary for proper use of Parco products.

Parco

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