

Parco

4067-70 Nitrile Seals

Need Seals to Meet MIL-P-25732?

4067-70 Meets Your Needs

1. Exceeds MIL-P-25732

Seals made from our 70-durometer nitrile compound 4067-70 exceed the requirements of MIL-P-25732. Parco supplies seals to 28 military and aerospace specifications. We are also one of only a few manufacturers approved to supply Qualified Products List (QPL) rubber seals. Our quality system is certified to ISO 9001, ISO/TS 16949, AC7115, and AS9100. So when you specify 4067-70, rest assured that you've made the right choice.

2. Excellent Resistance to Low Temperatures

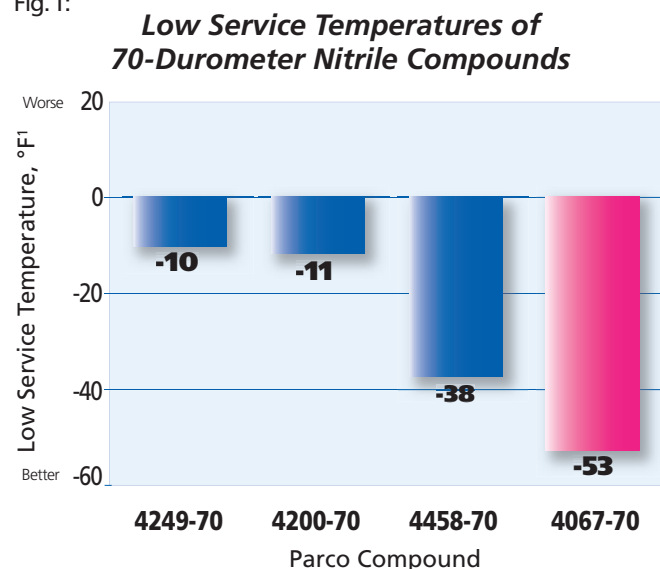
Seals used in low temperatures may become hard and brittle, making them more susceptible to cracking. Parco's 4067-70 seals can be used in static sealing applications with continuous service temperatures as low as -65°F. The American Society for Testing and Materials (ASTM) recommends the temperature retraction (TR-10) test to evaluate rubber for low-temperature service. Our laboratory technicians performed a TR-10 test on our 4067-70 material. After stretching O-rings made from our 4067-70 compound 50 percent in freezing temperatures, we gradually raised the temperature. The O-rings retracted 10 percent at low temperature of -53°F.

The temperature at which rubber retracts 10 percent approximates the material's low service temperature in dynamic applications. The excellent low-temperature properties of 4067-70 seals enables them to resist cracking in low-temperature applications (see Figure 1).

3. Exceptional Prices

Parco's 4067-70 prices are among the lowest available. We use the latest manufacturing techniques and sell in huge volume. That allows us to provide you with seals for MIL-P-25732 at a great price.

Fig. 1:



¹Values taken from temperature retraction (TR-10) tests.

Source: Parco Test Reports.

4067-70 seals have excellent low-temperature properties compared to other 70-durometer nitrile compounds. 4067-70 seals can be used in dynamic sealing applications with continuous service temperatures as low as -53°F.

Key Features

Parco's 4067-70 nitrile seals are ideal for use in low temperatures and hydraulic fluids. Key features include the following:

- **Meets popular military specification:**
Parco 4067-70 seals exceed the requirements for MIL-P-25732.
- **Excellent resistance to low temperatures:**
Parco 4067-70 seals can be used in static applications with continuous service temperatures as low as -65°F.
- **Exceptional Prices:**
Parco 4067-70 prices are among the lowest available.
- **Wide range of service temperatures:**
Parco 4067-70 seals are suitable for applications ranging from -65 to +240°F.

Chemical Resistance

USE WITH	DO NOT USE WITH
Gasoline Military Aircraft Hydraulic Fluid	Automatic Transmission Fluid Hot Air Ultraviolet Light

Typical Values for Compound 4067-70 70-durometer nitrile for MIL-P-25732

Section of Spec.	Physical Property	Requirement ¹	Typical Value	ASTM ² Test Method
	Original Properties			
Z1	Hardness, Shore A	70 to 78	75	D2240
	Tensile strength, MPa (psi), min.	10(1450)	19(2748)	D412
Z2	Ultimate elongation, pct., min.	150	174	D412
Z3	Modulus at 100 pct., elongation, psi	Report	1654	D412
Z4	Specific gravity	Report	1.33	D297
	Heat Aging			
	70 hours at 100°C (212°F)			D573
Basic	Hardness change, pts., Shore A	±15	5	
	Tensile strength change, pct.	±30	-8	
	Ultimate elongation change, pct., max.	-50	-17	
	Compression Set, Solid			D395
	22 hours at 100°C (212°F)			Method B
B14	pct. of original deflection, max.	25	13	
	Fluid Aging, IRM³ 901 Oil			
	70 hours at 100°C (212°F)			D471
EO14	Hardness change, pts., Shore A	-5 to 10	6	
	Tensile strength change, pct., max.	-25	5	
	Ultimate elongation change, pct., max.	-45	-7	
	Volume change, pct.	-10 to 5	-10	
	Fluid Aging, IRM 903 Oil			
	70 hours at 100°C (212°F)			D471
EO34	Hardness change, pts., Shore A	-10 to 5	-7	
	Tensile strength change, pct., max.	-45	3	
	Ultimate elongation change, pct., max.	-45	-15	
	Volume change, pct.	0 to 25	8	
	Low Temperature Resistance			
Z5	TR-10, °C (°F), max.	-40(-40)	-47(-53)	D1329

¹Compound 4067-70 meets the requirements shown above for ASTM D2000 M2BG710 B14 EO14 EO34 Z1 Z2 Z3 Z4 Z5. Compound 4067-70 also meets the requirements for MIL-P-25732, *Packing, Preformed, Petroleum Hydraulic Fluid Resistant, Limited Service at 275°F (135°C)*. The properties reported above are typical for 4067-70 but do not reflect the requirements of MIL-P-25732. ²ASTM is the initialism for the American Society for Testing and Materials. ³IRM is the initialism for Industry Reference Material.

Source: Parco Test Report 9346A.

⚠ 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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