

# 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 (see test report on reverse side). Parco supplies seals to 65 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/TS 16949 and AS9100. So when you specify 4067-70, rest assured that you've made the right choice.

##### 2. Excellent Resistance to Low Temperatures

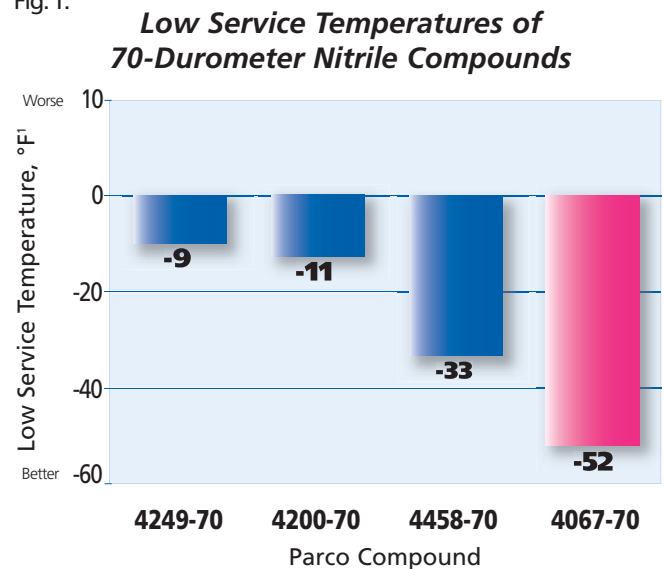
Seals used in low temperatures may become hard and brittle, making them more susceptible to cracking. Parco's 4067-70 seals can be used in static sealing applications with continuous service temperatures as low as -65°F. The American Society for Testing and Materials (ASTM) recommends the temperature 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 the low temperature of

-52°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:



<sup>1</sup>Values 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 -52°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 +200°F.

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

Section of Spec.	Physical Property	Requirement <sup>1</sup>	Typical Value	ASTM <sup>2</sup> Test Method
Z1	<b>Original Properties</b>			
	Hardness, Shore A	70 ± 5	72	D2240
	Tensile strength, MPa (psi), min.	6(870)	13.7(1990)	D412
	Ultimate elongation, pct., min.	150	179	D412
	Modulus at 100 pct., elongation, psi, min.	500	637	D412
Basic	<b>Heat Aging</b>			
	<b>70 hours at 100°C (212°F)</b>			
	Hardness change, pts., Shore A	±15	3	D573
	Tensile strength change, pct.	±30	6	
Ultimate elongation change, pct., max.	-50	-15		
<b>Compression Set</b>				
B14	<b>22 hours at 100°C (212°F)</b>			
	Pct. of original deflection, max.	25	13	D395 Method B
EO14	<b>Fluid Aging, ASTM Oil No. 1</b>			
	<b>70 hours at 100°C (212°F)</b>			
	Hardness change, pts., Shore A	-5 to 10	10	D471
	Tensile strength change, pct., max.	-25	15	
	Ultimate elongation change, pct., max.	-45	-17	
Volume change, pct.	-10 to 5	-10		
<b>Fluid Aging, IRM<sup>3</sup> 903 Oil</b>				
EO34	<b>70 hours at 100°C (212°F)</b>			
	Hardness change, pts., Shore A	-10 to 5	-8	D471
	Tensile strength change, pct., max.	-45	15	
	Ultimate elongation change, pct., max.	-45	-9	
	Volume change, pct.	0 to 25	9	
F17	<b>Low Temperature Properties</b>			
	Nonbrittle after 3 minutes at -40°C (-40°F)	Pass	Pass	D2137
Z2	TR-10 °C (°F)	-45(-49)	-47(-52)	D1329

<sup>1</sup>Compound 4067-70 meets the requirements shown above for ASTM D2000 M2BG706 B14 EO14 EO34 F17 Z1 Z2. Compound 4067-70 also meets the requirements for MIL-P-25732, *Packing, Preformed, Petroleum Hydraulic Fluid Resistant, Limited Service at 275°F (135°C)*. <sup>2</sup>ASTM is the acronym for the American Society for Testing and Materials. <sup>3</sup>IRM is the acronym for Industry Reference Material.

Source: Parco Test Reports 7259B and 8332A.

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Parco, Inc., 1801 S. Archibald Ave., Ontario, California 91761  
909-947-2200 Fax 909-923-0288 [parcoinc.com](http://parcoinc.com)