

Parco

4367-70 Nitrile Seals



Need Seals to Meet AMS-P-83461?

4367-70 Meets Your Needs

1. Exceeds AMS-P-83461

Seals made from our 70-durometer nitrile compound 4367-70 exceed the requirements of AMS-P-83461 (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 4367-70, rest assured that you've made the right choice.

2. Excellent Resistance to Low Temperatures

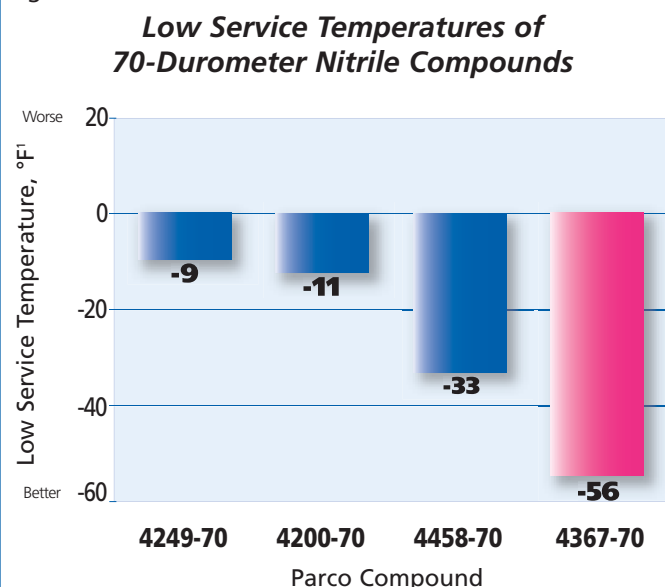
Seals used in low temperatures may become hard and brittle, making them more susceptible to cracking. Parco's 4367-70 seals can be used in static sealing applications with continuous service temperatures as low as -65°F. The American Society for Testing and Materials (ASTM) recommends the temperature retraction (TR-10) test to evaluate rubber for low-temperature service. Our laboratory technicians performed a TR-10 test on our 4367-70 material. After stretching O-rings made from our 4367-70 compound 50 percent in freezing temperatures, we gradually raised the temperature. The O-rings retracted 10 percent at the low temperature of -56°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 4367-70 seals enables them to resist cracking in low-temperature applications (see Figure 1).

3. Exceptional Prices

Parco's 4367-70 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 AMS-P-83461 at a great price.

Fig. 1:



¹Values taken from temperature retraction (TR-10) tests. Source: Parco Test Reports.

4367-70 seals have excellent low-temperature properties compared to other 70-durometer nitrile compounds. 4367-70 seals can be used in dynamic sealing applications with continuous service temperatures as low as -56°F.

Key Features

Parco's 4367-70 nitrile seals are ideal for use in low temperatures and hydraulic fluids. Key features include the following:

- **Meets popular aerospace specification:**
Parco 4367-70 seals exceed the requirements for AMS-P-83461.
- **Excellent resistance to low temperatures:**
Parco 4367-70 seals can be used in static applications with continuous service temperatures as low as -65°F.
- **Exceptional Prices:**
Parco 4367-70 prices are among the lowest available.
- **Wide range of service temperatures:**
Parco 4367-70 seals are suitable for applications ranging from -65 to +250°F.

Typical Values for Compound 4367-70 70-durometer nitrile for AMS-P-83461

Section of Spec.	Physical Property	Requirement ¹	Typical Value	ASTM ² Test Method
	Original Properties			
	Hardness, Shore A	70 ± 5	70	D2240
Z1	Tensile strength, MPa (psi), min.	6(870)	13.4(1937)	D412
	Ultimate elongation, pct., min.	100	157	D412
Z2	Modulus at 100 pct., elongation, psi, min.	Report	1205	D412
	Heat Aging			
Basic	70 hours at 100°C (212°F)			D573
	Hardness change, pts., Shore A	±15	2	
	Tensile strength change, pct.	±30	-6	
	Ultimate elongation change, pct., max.	-50	-8	
	Compression Set, Solid			
B14	22 hours at 100°C (212°F)			D395 Method B
	Pct. of original deflection, max.	25	11	
	Fluid Aging, ASTM Oil No. 1			
EO14	70 hours at 100°C (212°F)			D471
	Hardness change, pts., Shore A	-5 to 10	6	
	Tensile strength change, pct., max.	-25	15	
	Ultimate elongation change, pct., max.	-45	3	
	Volume change, pct.	-10 to 5	-10	
	Fluid Aging, IRM³ 903 Oil			
EO34	70 hours at 100°C (212°F)			D471
	Hardness change, pts., Shore A	-10 to 5	-8	
	Tensile strength change, pct., max.	-45	-3	
	Ultimate elongation change, pct., max.	-45	-10	
	Volume change, pct.	0 to 25	12	
	Low Temperature Property			
Z3	TR-10, °C (°F)	Report	-49(-56)	D1329

¹Compound 4367-70 meets the requirements shown above for ASTM D2000 M2BG706 B14 EO14 EO34 Z1 Z2 Z3. Compound 4367-70 also meets the requirements for Aerospace Material Specification, AMS-P-83461, *Packing, Preformed, Petroleum Hydraulic Fluid Resistant, Improved Performance At 275Mdf (135Mdc)*.

²ASTM is the acronym for the American Society for Testing and Materials.

³IRM is the acronym for Industry Reference Material.

Source: Parco Test Report 8013 and R & D Data.

Parco

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