# Parco 4900-90 Nitrile Back-up Rings

# **Need Nitrile Back-up Rings Tomorrow?**

Parco is committed to being the leader in lowcost, general-purpose, 90-durometer nitrile back-up rings. In addition to our low prices, we've increased our inventory four fold and cut our minimums in half. So when you need nitrile backup rings, you no longer have to check multiple sources for available inventory and competitive prices. Make Parco your first choice for 90durometer nitrile back-up rings.

# 4900-90 Meets Your Needs

#### **1. Excellent Physical Properties**

Parco's 4900-90 nitrile back-up rings have excellent physical properties (see test report on reverse side). We also provide traceability by batch number and cure date with every shipment. For nearly 25 years, 4900-90 back-up rings have been used in a wide variety of applications with great results. So when you specify 4900-90, rest assured that you've made the right choice.

#### 2. Exceptional Prices

Parco's 4900-90 prices are among the lowest in the industry. We work with the best suppliers, buy in large volumes, and sell in standard-quantity bags. Those features allow us to provide you with 90-durometer nitrile back-up rings at a great price.

### 3. Huge Inventory

We stock over 2.5 million pieces of 4900-90 backup rings in all 346 Parco standard sizes. We've also made it easy to check stock. Using our web site, you can view our inventory 24 hours a day. If we receive your order before 2:30 p.m. Pacific Time, you can receive your parts as soon as the next business day.

# **Rely on Parco**

Parco is a leading manufacturer of highperformance seals. We specialize in developing proprietary elastomeric compounds and bonding techniques. Parco's seals are available in more than 500 compounds.

Founded in 1941, Parco was the first manufacturer to specialize in O-rings. Our modern 154,000 square-foot facility is one of the largest plants in the world making molded rubber seals. Parco also makes custom-molded elastomeric products, including rubber-to-metal bonded parts. In addition, Parco imports and resells molded rubber seals.

For more information on Parco's 4900-90 back-up rings or to obtain samples, please contact a Parco customer service representative.

## **Key Features**

Parco's 4900-90 nitrile back-up rings are ideal for use in high-pressure applications. Key features include the following:

#### Lower cost:

Parco 4900-90 back-up rings cost much less than leather or teflon back-up rings.

• Broader machining tolerances:

Parco 4900-90 back-up rings permit broader machining tolerance and clearances of mating parts.

- Easy installation: Parco 4900-90 back-up rings are easier to assemble than leather or teflon because they may be stretched up to 50 percent.
- Broader machining tolerances: Parco 4900-90 back-up rings are suitable for applications ranging from -30 to +212°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 4900-90** General-purpose 90-durometer nitrile

Section of Spec.	Physical Property	<b>Requirement</b> <sup>1</sup>	Typical Value	ASTM <sup>2</sup> Test Method
	<b>Original Properties</b> Hardness, Shore A Tensile strength, MPa (psi), min. Ultimate elongation, pct., min.	90 ± 5 10(1450) 100	89 13(1870) 155	D2240 D412 D412
Basic	Heat Aging 70 hours at 125°C (257°F) Hardness change, pts., Shore A Tensile strength change, pct. Ultimate elongation change, pct., max.	±15 ±30 -50	4 5 -32	D865
B14	Compression Set, Solid 22 hours at 100°C (212°F) pct. of original deflection, max.	25	20	D395 Method B
EO15	Fluid Aging, ASTM Oil No. 1 70 hours at 125°C (257°F) Hardness change, pts., Shore A Tensile strength change, pct., max. Ultimate elongation change, pct., max. Volume change, pct.	0 to 10 -20 -35 -15 to 5	4 -6 -29 -8	D471
EO35	Fluid Aging, IRM <sup>3</sup> 903 Oil 70 hours at 125°C (257°F) Hardness change, pts., Shore A Tensile strength change, pct., max Ultimate elongation change, pct., max Volume change, pct.	±10 -15 -30 0 to 25	-5 -11 -21 7	D471
F16	Low Temperature Property Nonbrittle after 3 minutes at -35°C	Pass	Pass	D2137

<sup>1</sup>Compound 4900-90 meets the requirements shown above for ASTM D2000 M4CH910 B14 EO15 EO35 F16 Z1. <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 Report 7320C.

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

Form 2845 3/13

Parco, Inc., 1801 S. Archibald Ave., Ontario, California 91761 909-947-2200 Fax 909-923-0288 parcoinc.com