High-Performance Seals

Technical Excellence

Responsive Service

Parco
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PUT 60 YEARS’ EXPERIENCE TO WORK FOR YOU.
PARCO IS A LEADING MANUFACTURER
OF O-RINGS AND CUSTOM MOLDED SEALS

We offer the best technical expertise in the industry, and we respond to our customers – from the time they request a quote until they receive their parts. We want to be your seal supplier.

Founded in 1941, Parco was the first O-ring manufacturer. Today, we provide a comprehensive O-ring solution. We make our own molds, develop and mix our own elastomeric compounds, and mold our parts in computer-controlled presses. We also import and resell molded seals. Located two miles south of the Ontario International Airport, it takes less than 24 hours to get our seals to you.

We’ve implemented quality and management systems that measure up to the toughest standards. In research, tooling, and production, we have developed techniques and software that make Parco products the best in the business. We test every batch of compound to verify that six physical properties are conforming. Every Parco molding press is computer controlled to sequence operation of the press, maintain consistent curing conditions, and measure operator productivity. We know neatness counts. Our entire plant is clean and orderly, and our equipment is well maintained.
OUR PRODUCTS THRIVE IN TOUGH APPLICATIONS.

Parco is an industry leader in the development of proprietary elastomeric compounds and bonding techniques. Our seals are available in 340 compounds, with more than 25 percent introduced in the last five years.

We offer a variety of products including O-rings, custom molded seals, BACK-O's®, and T-seals. We make our own molds using a vertical machining center and numerically controlled lathes. That equipment can hold machining tolerances as tight as 0.0008 inch.
**O-RINGS**

Parco is your convenient source for quality O-rings. We make 369 standard sizes, hundreds of special sizes, and O-ring kits. We offer O-rings that meet virtually every military and industrial specification.

**CUSTOM MOLDED SEALS**

Parco makes custom molded products, including rubber-to-metal bonded parts, in outside dimensions ranging from 0.500 to 10 inches, and thicknesses from 0.050 to 2 inches. To ensure consistently high quality and on-time delivery, we machine our own metal components using numerically controlled lathes.

**BACK-O’S®**

We make BACK-O’s® (hard rubber, contoured back-up rings) for use with O-rings in high-pressure applications. Parco BACK-O’s® are more reliable, less costly, and easier to use than leather or Teflon.

**T-SEALS**

For high-pressure, long-stroke sealing applications, Parco makes a full line of T-seals. Our T-seals are designed to fit into standard O-ring grooves.

**OUR PRODUCTS ARE AVAILABLE IN THESE 15 ELASTOMERS:**

Fluorocarbon (Viton® and Fluorel®), nitrile (Buna-N), hydrogenated nitrile (HNBR), ethylene-propylene (EPR, EPDM), silicone, fluorosilicone, neoprene, polyacrylate, polyurethane, butyl, styrene-butadiene (SBR), Hydrin®, Hypalon®, Aflas®, and natural rubber. If you need a custom compound, we’re fully equipped to develop one for you.
WE SERVE MOST INDUSTRIES, INCLUDING YOURS.
OIL FIELD MACHINERY  A seal failure in the petroleum industry can cost more than $100,000 a day in downtime alone. That’s why companies like Baker Hughes, Halliburton Energy Services, and Schlumberger specify Parco for reliable, long-term performance. We have been a leader in developing seals for oil field machinery for more than 50 years. We’ve put that expertise to work developing compounds capable of withstanding caustic, high-temperature environments in wells as deep as five miles.

MOTOR VEHICLES  The motor vehicle industry demands high-volume production capabilities and consistently high quality seals for engines, transmissions and steering systems. Parco meets those critical requirements for leading manufacturers such as Ford, General Motors, Mercedes-Benz, and Volvo. Parco O-rings play a critical role in the safe performance of their vehicles.

AEROSPACE & DEFENSE  When missions and lives depend on the proper functioning of tiny seals, specifying the right product is especially critical. Parco is one of a few manufacturers approved to supply Qualified Products List (QPL) O-rings for aerospace and defense applications. In the Space Shuttle, Parco supplies the butyl seals used by Aerojet Corporation for the Shuttle’s maneuvering engines. We also supply the Shuttle’s fluorocarbon window seals.

FARM & CONSTRUCTION EQUIPMENT  Parco’s leadership in farm and construction equipment comes from the consistent performance of Parco products in rugged environments. Both huge corporations and independent farmers depend on Parco O-rings, Back-O’s, and T-seals to handle the toughest jobs. That’s why companies like John Deere rely on Parco O-rings in the hydraulic systems of their tractors.

FUEL-DISPENSING EQUIPMENT  Manufacturers of fuel-dispensing equipment require compound development expertise and high-volume production capabilities. Parco comes through on both counts, often exceeding customer requirements. Our seals offer excellent resistance to a wide range of fuels and ambient temperatures. With excellent resistance to compression set, our compounds extend service life. That’s why leading manufacturers like Gilbarco and Dresser-Wayne rely on Parco seals for their pumps.

WATER FILTRATION EQUIPMENT  Parco’s peroxide-cured ethylene-propylene seals are ideal for applications that require certification to ANSI/NSF Standard 61. Those seals provide excellent resistance to swelling in chloramine-treated drinking water and have excellent resistance to compression set for extended service life. Companies like Culligan trust Parco for their water filtration equipment.
Parco is the technical expert in the O-ring business. We have more than 60 years' experience in compound development and testing. That means we likely have a compound specifically formulated for your application. If we don’t, we can develop one.

Parco’s chemists are leaders in the industry and authorities that Parco customers have come to rely on. And for good reason. Our chemists are pro-active to ensure that Parco offers the best products. For example, our chemists regularly review new materials with development chemists at leading suppliers like Dyneon, DuPont Dow Elastomers and Zeon Chemicals.

Parco offers its customers more than excellent compounding skills. If you require a non-standard part, our engineers can design a seal to fit your exact requirements.
Parco’s chemists have unsurpassed compounding skills. Parco uses design-of-experiments (DOE) techniques and computer software to optimize the physical properties of every new compound. We use similar techniques to minimize material cost. Using DOE speeds compound development and assures that every compound has the best possible properties.

Parco subjects every new compound to a sustained pilot production run. We use design-of-experiments techniques to determine optimal curing conditions for use in production. If changes are needed in the compound or the process, the pilot run is repeated.

Parco’s seals are available in 340 compounds. Those compounds resist everything from sour crude oil to chlorine to rocket fuel. Our compounds perform at temperatures from -80° to +450° F, and meet virtually all military, ASTM, SAE, and commercial specifications.

At 20,000 feet below the surface, the most sophisticated drill bits on the planet are boring for oil. The hot, caustic environment often reaches 300° F and demands the world’s highest-performing seals. That’s why the largest manufacturer of rotary drill bits uses Parco as its primary O-ring supplier.

Having substantially improved its metal components, the drill-bit manufacturer needed to extend the life of its seals. The manufacturer evaluated four leading seal suppliers and chose Parco.

After extensive development, Parco provided seals with 20 percent greater abrasion resistance. To do so, we used a new base polymer, developed a new proprietary compound, and refined our molding technique. Parco’s new seals also withstand continuous exposure to 325° F, and hold cross-sectional tolerances 60 percent less than normal.

In thousands of water systems throughout the United States, Parco O-rings are protecting drinking water. Not only were our ethylene-propylene O-rings some of the first to be certified to ANSI/NSF1 Standard 61, they are the best performing on the market.

Standard 61 limits contaminants permitted to leach into the water and evaluates the potential for microbiological growth for materials used in drinking water transmission and distribution systems. Soon after Standard 61 took affect, the world’s largest manufacturer of water softening and filtration equipment tested O-rings from five leading suppliers. When Parco’s O-rings had the best resistance to chloramine-treated drinking water, the manufacturer chose Parco.

1 ANSI stands for the American National Standards Institute. NSF refers to NSF International, formerly the National Sanitation Foundation. ANSI administers the U.S. voluntary standardization system. NSF develops standards and certifies products for public health and safety.
Parco is the most responsive company in the O-ring business. From prompt answers to technical questions, quick turnaround of quotes, and short lead times, Parco responds to your needs.

When you call Parco, you’ll always speak to a real person and not be frustrated by an automated system. And every time you call, you’ll speak to the same person because we assign one customer service representative to each account. Our customer service representatives are well trained, experienced, and creative, with a get-it-done attitude.

Parco’s sophisticated computer system helps us beat anyone’s lead time. Our scheduling system allows for rush orders so other orders won’t go late. We’ve also built in a series of crosschecks that virtually eliminate ordering errors.
PARCO WORKS AROUND THE CLOCK TO HELP CUSTOMER

Recently, America’s largest manufacturer of swimming pool equipment had thousands of filters failing in the field because of swelling O-rings. The manufacturer’s current O-ring supplier had recently switched to a compound that couldn’t withstand highly chlorinated water. Swimming in calls from its dealers, the manufacturer needed thousands of replacement O-rings in a hurry. But the current O-ring supplier wouldn’t revert to its original compound. When test data showed that a Parco compound swelled only one-fourth as much, the manufacturer switched to Parco.

In addition to having a superior compound, Parco had an existing mold in the required size. The manufacturer needed more than 200,000 O-rings, so we molded parts around the clock. We also made an additional mold to increase capacity. Within three weeks Parco began shipping parts.

OUR SEALS HELP AVOID EXPLOSIVE SITUATION

When temperatures dropped to -10° F across the northeast, hundreds of gasoline dispensers began to leak. The seal design couldn’t handle extreme cold, so the third largest manufacturer of gasoline dispensing equipment needed to modify its equipment and install replacement seals immediately.

Parco’s chief chemist and design engineers recommended simplifying the design, reducing the number of elastomers used throughout the pump, and tightening dimensional tolerances. Parco made the six molds needed and began delivering all six parts in just ten days.
Parco’s products are available nationwide from our network of distributors. They can help you select the proper seal from a wide range of Parco products, keep a local inventory matched to your needs and provide special packaging or product identification.

In addition, each distributor has instant access to Parco’s computer system. So they always get accurate information on inventory, delivery and pricing. And when they place an order, it’s confirmed and processed immediately.

You can depend on your experienced Parco distributor. For one near you, contact a Parco customer service representative or use the Distributor Search Tool on our web site.
Parco’s knowledgeable distributors are located throughout the U.S.
Our goal is to be the best supplier of molded seals. We’ve built a modern plant, hired the best people, implemented a comprehensive quality system, and established a network of knowledgeable distributors, all dedicated to providing you with outstanding service.

No matter what challenges you face involving molded seals, we’re here to solve them. No one can match our history and technical expertise. You’ll receive our complete attention with a single call to our plant or to one of our distributors.

For more information about Parco, please visit our website at www.parcoinc.com. There you’ll have access to our sales literature, compound test reports, design tools and much more.
Parco is a leading manufacturer of high-performance seals. We are also experts in developing proprietary elastomeric compounds and bonding techniques. Our seals are available in 340 compounds, more than 25 percent introduced in the last five years.

Founded in 1941, Parco was the first manufacturer to specialize in O-rings, still our primary product. Our new 154,000 square foot facility is one of the largest O-ring plants in the world. We also make custom molded elastomeric products, including rubber-to-metal bonded parts. In addition, we import and resell molded seals. Our products are available throughout the United States from a network of distributors.

Parco sells to many Fortune 500 companies who demand world-class quality. To maintain the highest quality, we make our own molds using CAD/CAM equipment, develop and mix our own compounds, and mold our parts in computer-controlled presses. Our quality and management systems are certified to ISO 9002 and QS 9000. Our laboratory is certified to ISO 17025.