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## O-RINGS



Get a free O-Ring Quote!

Seal & Design is a premier supplier of o-rings of all varieties. Learn more about O-Ring compounds on the [Elastomeric Compound Page](#).



## Standard Compounds

Aflas FEPM	Perfluoroelastomer FFKM
Buna-S SBR	Nitrile / Buna-N NBR
Butyl	Hydrogenated Nitrile HNBR
Fluorosilicone FVMQ	Silicone VMQ
Neoprene CR	Hypalon CSM
Polyacrylate ACM	Ethylene Acrylic VAMAC
EPDM	Polyurethane AU / EU
PTFE	PTFE Encapsulated PFA, FEP
Viton FKM	

## Special O-Rings

Mil Spec O-Rings

Backup Rings

Pharmaceutical O-Rings

Viton O-Rings

X-Rings

## TECHNICAL O-RING INFO

Technical sealing has been defined by DIN Standards as follows:

- **Static Seal** - The sealing action created between two mating surfaces with no leakage of liquid or minimal diffusion of gas.
- **Dynamic Seal** - The mating surfaces have relative movement with minimal leakage of liquid (useful to protect the sealing efficiency, acting as lubricant)

The simple geometry is the main characteristic of an O-Ring which, in conjunction with proper elastomer selection results in a low cost, easy to use and efficient sealing system. Elastomeric materials, when compressed, react like a high viscosity fluid which transmits applied stress in every direction; consequently, the O-Ring serves as a barrier, blocking the leak paths between the sealing surfaces.

O-Rings offer several advantages over other sealing systems: simplicity of construction, standardized seal dimensions, wide selection of materials, suitability for both static and

dynamic applications, standard dimensioning of glands, low cost due to high volume manufacturing.

Sealing is always achieved through a positive compression or squeezing action, resulting in a deformation of the O-Ring cross-section. The most important sealing characteristic of an O-Ring is its resistance to compression set or residual deformation.

## O-RING OFFERINGS

We stock a full line of o-rings in a wide **variety of sizes**, shapes, and **compounds**. Popular offerings include: Viton® O-Rings, Buna-N O-Rings, Silicone O-Rings, Chemraz® O-Rings, EPDM O-Rings, PTFE O-Rings, Neoprene O-Rings, Metric O-Rings, **Back-Up Rings, X-Rings, Square Rings, Spliced O-Rings**. We also make custom o-rings for specific applications.

### O-Ring Offerings

- **O-Ring Kits**
- **Mil - Spec O-Rings**
- **PTFE & Contoured Back-up Rings**
- **European (DIN) O-Rings**
- **Japanese Metric (JIS) O-Rings**
- **O-Ring Lube**
- **Spliced / Vulcanized O-Rings**
- AS568 sizes available in Square ring or Quad-ring (X-ring) profiles
- Metallic O-Rings

### O-Ring Special Features Available

- Special packaging, barcoding, and private labelling
- Silicone coating
- Dipped external o-ring lube designed for ease of installation
- Moly/Graphite Lube
- Molybdenum disulfide external o-ring lube
- Parafin filled - internal
- Wax based o-ring lube - moderate lubricity
- Silicone lube - internal
- O-rings or special molded parts can be produced in any color

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