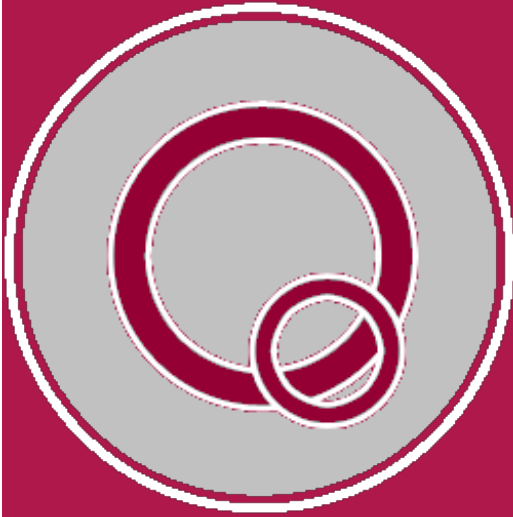




HOME / PRODUCTS / O-RINGS



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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