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

<table>
<thead>
<tr>
<th>Standard Compounds</th>
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</thead>
<tbody>
<tr>
<td>Aflas FEPM</td>
<td>Perfluoroelastomer FFKM</td>
</tr>
<tr>
<td>Buna-S SBR</td>
<td>Nitrile / Buna-N NBR</td>
</tr>
<tr>
<td>Butyl</td>
<td>Hydrogenated Nitrile HNBR</td>
</tr>
<tr>
<td>Fluorosilicone FVMQ</td>
<td>Silicone VMQ</td>
</tr>
<tr>
<td>Neoprene CR</td>
<td>Hypalon CSM</td>
</tr>
<tr>
<td>Polyacrylate ACM</td>
<td>Ethylene Acrylic VAMAC</td>
</tr>
<tr>
<td>EPDM</td>
<td>Polyurethane AU / EU</td>
</tr>
<tr>
<td>PTFE</td>
<td>PTFE Encapsulated PFA, FEP</td>
</tr>
<tr>
<td>Viton FKM</td>
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</tbody>
</table>

### 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.

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 dasulfide external o-ring lube
- Parafin filled - internal
- Wax based o-ring lube - moderate lubridity
- Silicone lube - internal
- O-rings or special molded parts can be produced in any color