



# O-Ring Reference Guide\*

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\*Fargo provides this chart for general reference only. Consult your engineering professional for specific questions and uses.

Material and Rating	Features and Common Uses	Unsuitable for use with	General Properties
<b>Buna-N (Nitrile)</b>  Standard: 70 Durometer (black) Temp. range: -35°F to 250°F	<b>Inexpensive, with a wide selection of sizes readily available</b> <ul style="list-style-type: none"> <li>Water</li> <li>Silicone greases / oils</li> <li>Petroleum oils / fuels</li> <li>Ethylene glycol fluids</li> </ul>	<ul style="list-style-type: none"> <li>Ketones</li> <li>Auto / aircraft brake fluids</li> <li>Strong acids</li> <li>Sunlight, ozone, or weathering conditions</li> <li>Halogenated hydrocarbons</li> </ul>	<ul style="list-style-type: none"> <li>Good wear resistance</li> <li>Good compression set resistance</li> <li>Good short-term resilience</li> <li>Good permeation resistance</li> </ul>
<b>Viton</b>  Standard: 75 Durometer (black) Temp. range: -15°F to 400°F	<b>Suitable for vacuum conditions</b> <ul style="list-style-type: none"> <li>Most acids / chemicals</li> <li>Petroleum oils / fuels</li> <li>Silicone oils / greases</li> <li>Halogenated hydrocarbons</li> <li>Di-ester lubricants</li> </ul>	<ul style="list-style-type: none"> <li>Ketones</li> <li>Acetone</li> <li>Organic acids</li> </ul>	<ul style="list-style-type: none"> <li>Good wear resistance</li> <li>Moderate short-term resilience</li> <li>Excellent permeation resistance</li> <li>Excellent compression set resistance</li> </ul>
<b>Silicone</b>  Standard: 70 Durometer (orange) Temp. range: -65°F to 450°F	<b>Odourless and non-toxic; tolerates wide temp. ranges</b>  Tolerates dry heat uses; sunlight, ozone, and weathering conditions	<ul style="list-style-type: none"> <li>Ketones</li> <li>Acids</li> <li>Silicone oils</li> <li>Brake fluids</li> </ul>	<ul style="list-style-type: none"> <li>Poor wear resistance</li> <li>Poor short-term resilience</li> <li>Excellent compression set resistance</li> <li>Excellent permeation resistance</li> </ul>
<b>EPDM (Ethylene Propylene)</b>  Standard: 70 Durometer (black) Temp. range: -60°F to 250°F	<b>Suitable for plumbing, steam and hot water applications</b> <ul style="list-style-type: none"> <li>Sunlight, ozone, and weathering conditions</li> <li>Auto / aircraft brake fluids</li> <li>Some acids and bases</li> <li>Ketones and alcohols</li> </ul>	<ul style="list-style-type: none"> <li>Petroleum oils</li> <li>Fuels</li> </ul>	<ul style="list-style-type: none"> <li>Good wear resistance</li> <li>Good compression set resistance</li> <li>Good permeation resistance</li> <li>Moderate short-term resilience</li> </ul>
<b>Neoprene (Chloroprene)</b>  Standard: 70 Durometer (black) Temp. range: -35°F to 250°F	Commonly used in refrigeration systems <ul style="list-style-type: none"> <li>Freon</li> <li>Ammonia</li> <li>Petroleum oils</li> <li>Dilute acids</li> <li>Silicone ester lubricants</li> </ul>	<ul style="list-style-type: none"> <li>Ketones</li> <li>Gasoline</li> <li>Auto and brake fluids</li> </ul>	<ul style="list-style-type: none"> <li>Good wear resistance</li> <li>Good permeation resistance</li> <li>Moderate compression set resistance</li> <li>Moderate short-term resilience</li> </ul>
<b>Urethane</b>  Standard: 90 Durometer (translucent) Temp. range: -65°F to 200°F	<b>Often used in drive belts</b> <ul style="list-style-type: none"> <li>Petroleum and fuel oils</li> <li>Oxygen / ozone</li> </ul>	<ul style="list-style-type: none"> <li>Vacuum conditions</li> <li>Most acids / chemicals</li> <li>Petroleum oils / fuels</li> <li>Silicone oils / greases</li> </ul>	<ul style="list-style-type: none"> <li>Poor compression set resistance</li> <li>Excellent wear resistance</li> <li>Excellent short-term resilience</li> </ul>

**Service Value Reliability.  
 Today and Tomorrow**