

O-Rings

O-Rings are available in a choice of six basic materials, each in a range of Durometer (Shore A) Hardnesses as detailed. All materials are compounded under stringent quality control for uniformity of excellent physical properties and are qualified to Government, Military, Space Programs, Automotive, F.D.A., U.L., Industrial and Commercial specifications as required.		To Determine Material: Base your selection on (1) How the unit will operate. Will it be static or dynamic sealing? (2) The media to be sealed (fluid, gas. specific chemicals. etc.) Or will the O-Ring have some other use? (3) Temperature extremes, length of exposure (4) Pressure range (higher pressure requires higher durometer)	
MATERIAL DESIGNATION BN	DUROMETERS 40 thru 90°	MATERIAL DESIGNATION C	DUROMETERS 40 thru 90°
The standard for most general applications; petroleum base lubricants, hydraulic oils, gasoline, fuels. alcohol, L.P. gases, water and many other media.		Recommended for refrigeration, freon gases, carbon dioxide gases, chlorine, ozone, sunlight exposure and for use as drive belts. F.D.A. approved for food and beverages. Odorless, tasteless, non-toxic.	
Temperature Range: -65 to +225°F (-55 to +107°C)		Temperature Range: -45 to +300°F (-43 to +150°C)	
When ordering Compound & Durometer are shown after ARP No. Example - N 70 or N 90		When ordering Compound & Durometer are shown after ARP No. Example - C 70	
ETHYLENE-PROPYLENE (EPDM)		FLUOROCARBON (VITON) (FLUOREL)	
MATERIAL DESIGNATION EP	DUROMETERS 40 thru 90°	MATERIAL DESIGNATION $oldsymbol{V}$	DUROMETERS 40 thru 90°
For hot water, steam, acids, alcohols, alkalis, keytones, phosphate esters, brake fluids, drive belts and exposure to oxygen, ozone and weathering.		High temperature toughness, stability and compatibility with a wide range of fluid and chemical types including acids, oils, fuels, solvents and gases.	
Temperature Range: -70 to $+275^{\circ}$ F (-57 to $+135^{\circ}$ C)		Temperature Range: -15 to +500°F (-26 to +260°C)	
When ordering Compound & Durometer are shown after ARP No. Example - EP 75		When ordering Compound & Durometer are shown after ARP No. Example - V 75	
SILICONE		POLYURETHANE	
MATERIAL DESIGNATION S	DUROMETERS 40 thru 90°	MATERIAL DESIGNATION P	DUROMETERS 40 thru 90°.
Compatible with a variety of fluids. air, oxygen, ozone and other media for extremes of low and high temperature applications.		Extremely high tensile abrasion resistance with elongation that allows easy installation. Highly recommended for cylinder design for a wide vanety of hydraulic fluids.	
Temperature Range: -65 to +450°F (-54 to +232°C)		Temperature Range: 40 to +180°F (-40 to 82°C)	
When ordering Compound & Durometer are shown after ARP No. Example - S 70		When ordering Compound & Durometer are shown after ARP No. Example - P 70	
Fluid Compatibility Chart			
Polymer Key		Temperature Range	
Code	Polymer	°F	°C
А	Polyacrylate	-5 to + 350	-20 to + 177
В	Butyl	-75 to + 250	-59 to + 120
С	Neoprene (Chloroprene)	-45 to +250/300	-43 to + 120/150
E	Ethylene Propylene	-70 to + 275/400	-57 to+ 135/205
G	SBR	-70 to +225	-57 to+ 107
L	Fluorosilicone	-100 to +350/400	-73 to +177/205
М		-30 to +250	-34 to + 121
N	NItrile (BUNA N)	-65 to + 225	-55 to + 107
Р	Polyurethane	-40 to + 180	-40 to + 82
S	Silicone	-65 to + 450	-54 to + 232
V	Fluorocarbon	-15 to +400/500	-26 to +205/260

Other sizes and materials available on request - please enquire. Standard terms and conditions apply.

O-RINGS 7/2