STANDARD O-RING MATERIALS

Material	General Characteristics	Common Applications
Buna-N (Nitrile / NBR) 70 Durometer	Good resistance to petroleum, hydrocarbons, fuels. Widely used with most oils, hydraulic fluids, alcohol. Poor resistance to sunlight, weathering and ozone. Many compound variations for specific applications. The least expensive most readily available material. Basic temperature range: -40°C to 121°C	Petroleum Oil Seals Hydraulic Fluid Seals Water / Greases Transmission Fluid Seals
Viton® (Fluorocarbon) 75 Durometer	Excellent temperature and chemical resistance. Excellent mechanical and physical properties. Low compression set and low gas permeability. Not for use with Acetone, Skydrol, or ethyl Acetate. Basic temperature range: -29°C to +204°C	Vacuum Seals Many Acids and Fuels Heat Resistance Many Chemicals Many Solvents
Silicone 70 Durometer	Broad temperature range. Odorless / non-toxic. Resistance to sun and ozone. Fungus resistance. Poor tear and abrasion strength. Poor resistance to oils. Basic temperature range: -62°C to +204°C	Dry heat Alcohol / Oxygen Electrical / Medical Low Temperature
The following are special materials; Please contact us for further enquiries.		
EPDM / EPR (Ethylene Propylene) 70 Durometer	Resistance to sunlight, weathering and ozone. Poor resistance to petroleum oils and fuel. Good heat and compression set resistance. Basic temperature range: -54°C to +121°C	Steam / Hot water Hydraulic / Skydrol Some Chemicals Auto Brake Systems Alcohol / Greases
PTFE®	Excellent temperature range. Various chemical and fuel resistance. Low coefficient of friction. Non-elastic. Basic temperature range: -157°C to +232°C	Temperature Range Chemicals / Fuels Non-elastic
Neoprene (Chloroprene)	Good resistance to petroleum oils. Low compression set and good abrasion strength.. Good resistance to weathering, sunlight and ozone. Basic temperature range: -40°C to +107°C	Refrigeration Seals Freon / Air Conditioning Motor Mounts Engine Coolants