

O Ring Material Guide

| Material | Hardness range Shore A | Temp Range °C | Recommended for | Not Recommended for |
|-------------------------|------------------------|---------------|--|--|
| Nitrile -Butadiene NBR | 55-90 | -35 to 100 | Petroleum base oils and fluids, mineral oils, ethylene glycol base fluids, silicone and di-ester base lubricants, air, water under 150°F, and natural gas. | Phosphate ester base hydraulic fluids, automotive brake fluids, strong acids, ozone, freons, ketones, halogenated hydrocarbons, and methanol. |
| Fluorocarbon FKM | 65 -90 | -30 to 200 | Petroleum base oils and fluids, some phosphate ester base fluids, silicone and silicate ester base lubricants, di-ester base lubricants, acids and halogenated hydrocarbons. | Ketones, skydrol fluids, amines (VDMH), anhydrous ammonia, low molecular weight esters and ethers, and hot hydrofluoric or chlorosulfonic acids. |
| Ethylene-Propylene EPDM | 65-90 | -50 to 120 | Phosphate ester base hydraulic fluids, hot water, steam to 400°F, silicone oils and greases, dilute acids and alkalis, ketones, alcohols and automotive brake fluids. | Petroleum base oils and di-ester base lubricants. |
| SILICONE Si | 65-90 | -50 to 200 | Dry heat (air to 400°F) and high aniline point oils. | Most petroleum fluids, ketones, water and steam. |
| NEOPRENE CR | 65-90 | -40 to 100 | Refrigerants (freons, ammonia), high aniline point petroleum oils, mild acids, and silicate ester lubricants. | Phosphate ester fluids and ketones. |