

General Purpose Lubricants for Common O-Ring Elastomers

In all dynamic applications, proper lubrication and good heat dissipation are essential to long seal life and performance. In pneumatic applications, supplemental lubrication should be provided. Lubricants should be selected on the basis of the material of which the O-Ring is made and the type of service to which it will be subjected. (See Table). In other instances the lubricant can be molded into the O-Ring, or Teflon or other coatings can be applied to the surface.

Type of Elastomer	Type of Service	Lubricant	Temperature Range, °F
Nitrile	Hydraulic Oils	Petroleum	-20 to 180
	Severe Service	Barium Grease	-20 to 300
	Pneumatic or Vacuum	Dow Corning: DC-55	65 to 275
Fluorocarbon	Hydraulic Oils	Petrolatum	-20 to 180
	High Temperature & Vacuum	Dow Corning: DC-55	-65 to 275
Chloroprene	Hydraulic Oils Vacuum	Petrolatum	-20 to 180
Silicone	General	Dow Corning: FS-1292	-20 to 180
	High Temperature Petrolatum		-20 to 400
Ethylene-Propylene	Skydrol Steam & Hot Water	Aviation Fuel	65 to 300
		Service Co: MCS-352	32 to 350
		Dow Corning: DC4, DC-7, DC-55	