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# Sealing Solutions

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# Why Sealing Matters in Transformer Reliability

Transformers rely on oil, insulation, pressure, and environmental protection to operate safely. Seals, gaskets, and polymer components protect these systems from leaks, moisture, and failures—making them one of the most critical reliability components inside every transformer.

## 1. Prevent Oil Leak

Oil provides cooling, insulation, and arc suppression. A single leak triggers costly outages, EPA reporting, cleanup, and safety risks. High-integrity seals ensure leak-free performance at tank covers, bushings, PRDs, valves, radiators, and tap changers.

## 2. Keep Moisture Out

Moisture dramatically reduces dielectric strength and accelerates insulation aging.

Seals protect against humidity, flooding, condensation, and submersion conditions, preserving oil health and dielectric performance.

## 3. Improve Long-Term Reliability

Transformers operate for 30–40+ years under heat, vibration, UV, pressure, and fluid exposure.

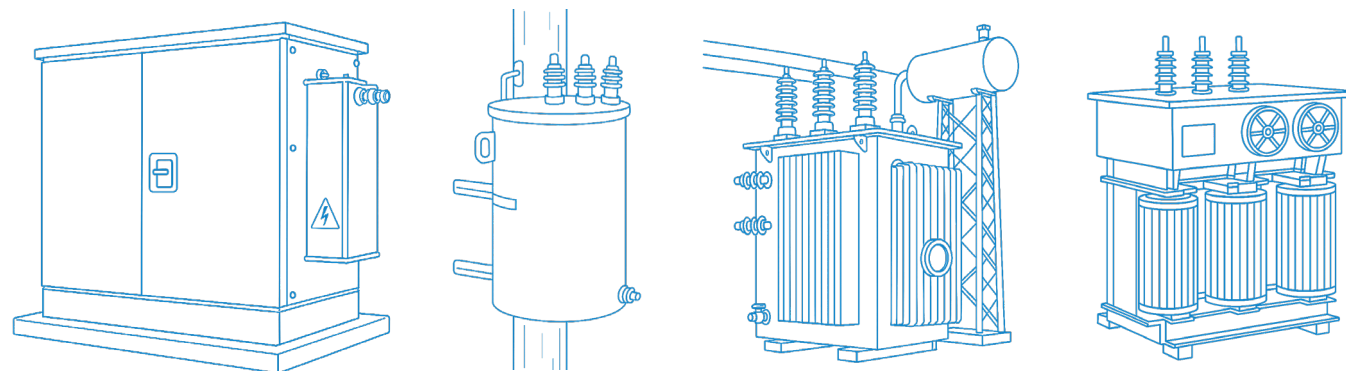
The right materials (NBR, HNBR, FKM, EPDM, PTFE, PEEK) withstand thermal cycling, compression set, and fluid compatibility challenges to maintain long service life.

Seals help meet key safety and performance standards, including:

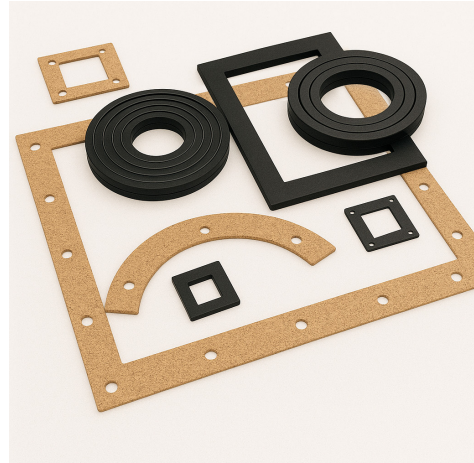
- UL 157 (elastomeric materials)
- UL 50 / 50E (enclosure sealing)
- UL 94 (flammability for plastics)
- IEEE C57.12.x transformer performance requirements
- ASTM D2000 / F36 / F37 material and gasket performance tests

## 4. Extend Asset Life & Reduce Cost of Ownership

A low-cost O-ring protects a multimillion-dollar asset. Seals preserve oil integrity, protect LTC systems, prevent leaks, reduce aging, and extend asset service life—delivering major lifecycle cost savings.



Transformer Type	Seal Locations	Gasket Locations	Applicable Seal Standards
Padmount	Valve O-Rings, Prd, Bushing O-Rings, Oil-Port O-Rings, Backup Rings, Guides	Tank Gasket, Sight Glass Gasket, UL50E Enclosure Gasket	UL 50/50E UL 157 ASTM D2000
Polemount	Tank Cover O-Ring, Drain Valve O-Ring, Wipers	Cover Gasket	UL 157 ASTM D2000
Substation (Distribution)	LTC Shaft Seals, Valve O-Rings, Prd, Bushing O-Rings, Spacers	Radiator Gaskets, Tank Gasket, Conservator Seals	UL 157 ASTM D2000 ASTM F36/F37 UL 94
Power Transformer	Bushing O-Rings, LTC O-Rings, Valve O-Rings	Large Tank Gasket, Radiator Gaskets	UL 157 ASTM D2000 ASTM F36/F37 UL 94
Submersible / Vault	PRD O-Rings, Bushing O-Rings, Submersion Components	High-Pressure Tank Gasket, Molded Vault Gaskets	UL 50E UL 157 ASTM D2000
Network Transformer	Valve O-Rings, Bushing O-Rings, PRD Seals, Backup Rings	Tank Cover Gasket, Vault Gasket	UL 50/50E UL 157
Auto-Transformer	LTC O-rings, Radiator O-Rings, Valve O-Rings	Tank Gasket	UL 157 ASTM D2000 UL 94
GSU	Conservator O-rings, LTC O-rings, PRD	Radiator & Tank Gaskets	UL 157 ASTM D2000 ASTM F36/F37 UL 94
HVDC / Converter	Bushing O-rings, Valve O-rings	Tank gaskets, radiator gaskets	UL 157 ASTM D2000 UL 94
Mobile Transformer	PRD O-rings, valve O-rings, Shock Elements	Tank Gasket	UL 157 ASTM D2000 UL 94
Furnace Transformer	High-temp O-rings	Tank Gasket	UL 157 ASTM D2000 UL 94
Traction / Locomotive	Vibration-rated O-rings	Tank Gasket	UL 157 ASTM D2000 UL 94
VPI/VPE Dry-Type	Small O-rings	Enclosure Gaskets	UL 94 UL 50
Oil-Filled CT	Terminal O-rings, Base O-rings, Backup Rings	Tank Gasket	UL 157 ASTM D2000
Oil-Filled PT/VT	Bushing Seals, Valve O-rings,	Tank Gasket	UL 157 ASTM D2000



# Seal Standards Within The UL Transformer Industry



## Underwriter Laboratories

UL stands for Underwriter Laboratories, a third-party certification company that's been around for over a century. They certify products with the aim to make the world a safer place for both workers and consumers. Besides testing, they set industry standards to follow when innovating new products.

### UL 157 "Gaskets & Seals" Recognitions

Code	End-Use Application
A	Extinguishing agents
B	Gasoline
C	Gasoline / Alcohol blends up to 15% alcohol
D	Naptha or kerosene
E	MPS gas
F	Manufactured gas or natural gas
G	<b>Diesel fuel, fuel oil or lubricating oil</b>
H	Heated fuel oil
I	Anhydrous ammonia
J	Liquefied petroleum gas (LP-gas)
K	Dry-cleaning agents
L	Laundry detergents
M	Dishwashing detergents
N	Atmospheric ozone
O	Generated ozone
(c)	Complementary Recognized under HMY2. MH26295

### UL 94 "Flammability of Plastic Materials for Parts in Devices & Appliances"

Code	Rating
HB	Slow burning on horizontal part.
V-2	Burning stops within 30 seconds on a part allowing for drops of vertical flammable plastic.
V-1	Burning stops within 30 seconds on a vertical part allowing for drops of plastic that are not inflames.
V-0	Burning stops within 10 seconds on a vertical part allowing for drops of plastic that are not inflames.
5VB	Burning stops within 60 seconds on a vertical part not allowing for drops of plastic that are not inflames. Test specimens may have a burn-through (a hole)
5VA	Burning stops within 60 seconds on a vertical part not allowing for drops of plastic that are not inflames. Test specimens may not have a burn-through (no hole).

## RECOMENDED MATERIALS

NBR	EDPM	FKM
HNBR	Silicone	PU
PTFE	PEEK	Nylon
Neoprene-Sponge	NBR-Cork	EDM-Sponge
Graphite Sheet	Graphite Composite	



### UL RECOGNIZED MATERIALS

Engineered Seal Products offers a wide variety of UL recognized rubber compounds to meet the critical demands and varying applications within the transformer market. Whether our own, or solutions from our supplier partners, we have the expertise to match the standards.

## Regulatory & Standards Compliance

### UL 50E - Standard for Enclosures for Electrical Equipment, Environmental Considerations

1.1 This standard applies to enclosures for electrical equipment intended to be installed and used in non-hazardous locations in accordance with the Canadian Electrical Code, Part I, CSA C22.1, the provisions of the National Electrical Code, NFPA 70, and the provisions of Mexico's Electrical Installations, NOM-001-SEDE, as follows:

- Enclosures for indoor locations, Types 1, 2, 5, 12, 12K, and 13; and
- Enclosures for indoor or outdoor locations, Types 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 6, and 6P.

1.2 This standard covers additional environmental construction and performance requirements for enclosures. The general requirements for enclosures are contained in CSA C22.2 No. 94.1, UL 50, and NMX-J-235/1-ANCE (See Annex B, Ref. No. 10) or the end-use product standards that are to be used in conjunction with this standard.

1.3 This standard does not cover the requirements for protection of devices against conditions such as condensation, icing, corrosion, or contamination that may occur within the enclosure or that may enter via conduit or unsealed openings.

1.4 Where an individual product standard contains requirements that are at variance with those of this standard, the requirements of the individual product standard take precedence.

# UL 157 Material Matrix

Brand	Compound	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
NBR	Engineered Seal Products	N8008	•	•	•	•	•	•			•						
	Engineered Seal Products	N8009						•	•		•						
	Engineered Seal Products	N8010						•	•		•						
	Parker O-Ring	N0497-70		•	•	•		•	•		•						
	Parker O-Ring	N1500-75		•	•	•		•	•		•						
	Parker O-Ring	NF162-65		•	•	•		•	•	•	•						
	Parker O-Ring	NF265-80		•	•	•		•	•		•						
	Parker O-Ring	NL288-70		•	•	•		•	•	•		•					
	Engineered Seal Products	V8090		•	•	•		•	•								
	Engineered Seal Products	V8091		•	•	•		•	•	•		•					
Engineered Seal Products	V1122		•	•	•		•	•	•		•						
Parker O-Ring	V0747-75		•	•	•		•	•	•		•						
Parker O-Ring (obsolete)	V0884-75		•	•	•		•	•									
Parker Hannifin	V1163-75		•	•	•		•	•			•						
Parker O-Ring (obsolete)	V1226-75		•	•	•		•	•			•						
Parker O-Ring	V1237-65		•	•	•		•	•			•						
Parker O-Ring	V1262-65		•	•	•		•	•			•						
Parker O-Ring	V1263-75		•	•	•		•	•			•						
FKM	Parker O-Ring	V1264-90		•	•	•		•	•		•						
	Parker O-Ring	V1436-75	•	•		•		•	•	•		•					
	Parker O-Ring	VA151-75		•		•		•	•	•		•					
	Parker O-Ring	VG273-75 (c)		•	•	•		•	•	•		•					
	Parker O-Ring (obsolete)	VM100-75		•		•		•	•	•		•					
	Parker O-Ring	VA075-75		•	•	•		•	•	•		•					
	Parker O-Ring	VW076-75		•	•	•		•	•	•		•					
	Freudenberg-NOK	V121		•	•	•		•	•			•					
	Freudenberg-NOK	V123		•	•	•		•	•			•					
	Freudenberg-NOK	V75	•	•		•		•	•	•		•					
Freudenberg-NOK	V75BR		•		•		•	•			•						
FVMQ	Engineered Seal Products	L8090		•	•	•		•	•		•						
	Parker O-Ring	L1120-70		•	•	•		•	•	•	•						
	Parker O-Ring	L1465-70		•	•	•		•	•		•						
	Parker O-Ring	LM100-70		•	•	•		•	•	•	•						

The final acceptance of a gasket material in a specific end-use application is dependent on its installation and use, and may require additional evaluation with respect to ingress or leakage of solids (such as dusts), liquids or gases, or other features dependent on the design and construction of the equipment in which it is used.

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# MATERIALS: UL Tested Physical Properties

Brand	Compound	File Number	Temperature Range (°C)	Hardness Range	Tensile Str (psi)	Elong (%)	Max Comp Set (%)	Max Tensile Set (%)
<b>NITRILE (NBR)</b>								
Engineered Seal Products	<b>N8008</b>	MH65940	-40 to 60	69 to 79	1599	294	8.8	1
	USE: A(Water, Dry Chemical), B, C(Ethanol), D, F, G, J Suitable for UL 50E continuous and periodic compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for UL 87B 100% (B100) biodiesel fuel or diesel/biodiesel fuel blends with nominal biodiesel fuel concentrations up to 20% (B20) for static and dynamic applications Suitable as gasket material for use in UL 778 - Motor Operated Water Pumps (temperature rise: 35 or less °C)							
Engineered Seal Products	<b>N8009</b>	MH65940	-40 to 60	48 to 58	1438	570.3	11.29	0.2
	USE: F, G, J Suitable for UL 50E continuous and periodic compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion							
Engineered Seal Products	<b>N8010</b>	MH65940	-40 to 60	76 to 86	2809.7	236.3	5.82	1.7
	USE: F, G, J Suitable for UL 50E continuous and periodic compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion							
Parker O-Ring	<b>N0497-70</b>	MH25709	-40 to 60	69 to 79	1836	34	11.1	0
	USE: B, C, D, F, G, J Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications							
Parker O-Ring	<b>N1500-75</b>	MH25709	-40 to 60	72 to 82	1610	300	8.8	1
	USE: B, C, D, F, G, J Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for UL 87B 100% (B100) biodiesel fuel or diesel/biodiesel fuel blends with nominal biodiesel fuel concentrations up to 20% (B20) for static and dynamic applications							
Parker O-Ring	<b>NF162-65</b>	MH25709	-40 to 70	60 to 70	1540	310	25	2
	USE: B, C, D, F, G, H, J Suitable for UL 262 - Gate Valves for Fire-Protection Service							
Parker O-Ring	<b>NF265-80</b>	MH25709	-40 to 60	79 to 89	1350	175	19.4	6
	USE: B, C, D, G Suitable for Gasoline/Alcohol blends up to 15% Methanol							
Parker O-Ring	<b>NL288-70</b>	MH25709	-40 to 70	60 to 70	1540	310	25	2
	USE: B, C, D, F, G, H, J							

# MATERIALS: UL Tested Physical Properties

Brand	Compound	File Number	Temperature Range (°C)	Hardness Range	Tensile Str (psi)	Elong (%)	Max Comp Set (%)	Max Tensile Set (%)
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## FLUOROCARBON (FKM)

Engineered Seal Products	<b>V8090</b>	MH65940	-60 to 200	68 to 78	2035	183	16.9	0
	USE: B, C(Ethanol), D, G Suitable for UL 50E continuous compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion Suitable for UL 87A and UL 2586A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for UL 87B and UL 2586B diesel/biodiesel fuel blends with nominal biodiesel fuel concentrations up to 20% (B20) for static and dynamic applications Suitable for UL 87C and UL 2586C diesel exhaust fluids for static and dynamic applications							
Engineered Seal Products	<b>V8091</b>	MH65940	-40 to 200	75 to 85	2278	201	5.3	4
USE: B, C(Ethanol), D, F, G, H, J Suitable for UL 50E continuous and periodic compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion								
Engineered Seal Products	<b>V1122</b>	MH65940	-40 to 200	75 to 85	2105.7	201.7	7.6	3
	Use: B, C(Ethanol), D, F, G, H, J Suitable for UL 50E continuous compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion Suitable for UL 87A and UL 2586A gasoline/ethanol blends with ethanol concentrations up to 25% (E25) for static and dynamic applications Suitable for UL 87B and UL 2586B 100% (B100) biodiesel fuel or diesel/biodiesel fuel blends with nominal biodiesel fuel concentrations up to 20% (B20) for static and dynamic applications Suitable For UL 87C And UL 2586C diesel exhaust fluids for static and dynamic applications							
Parker O-Ring	<b>V0747-75</b>	MH25709	-40 to 60	70 to 80	1740	170	8.3	3
USE: B, D, F, G, H, J								
Parker Hannifin	<b>V1163-75</b>	MH47018	-40 to 60	71 to 81	1894	238	17	3
	USE: B, C(Ethanol), D, F, G, J Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for UL 87B diesel/bio-diesel fuel blends with nominal bio-diesel fuel concentrations up to 20% (B20) for static and dynamic applications Suitable for UL 87C diesel exhaust fluids for static and dynamic applications Suitable for use with ETBE/gasoline blends containing up to 20% ETBE Suitable for use with MTBE/gasoline blends containing up to 20% MTBE Suitable for use with TAME/gasoline blends containing up to 20% TAME							
Parker O-Ring	<b>V1237-65</b>	MH25709	-26 to 200	64 to 74	1990	270	14.8	6
USE: B, C(Ethanol), D, F, G, J Suitable for use with ETBE/gasoline blends containing up to 20% ETBE Suitable for use with MTBE/gasoline blends containing up to 20% MTBE Suitable for use with TAME/gasoline blends containing up to 20% TAME								
Parker O-Ring	<b>V1262-65</b>	MH25709	-40 to 105	62 to 72	1689	276	9.3	3
USE: B, C(Ethanol), D, G Suitable for use with Gasoline/Alcohol blends up to 15% Methanol								
Parker O-Ring	<b>V1263-75</b>	MH25709	-40 to 105	72 to 82	1970	255	18.5	3
	USE: B, C(Ethanol), D, G Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for UL 87B diesel/bio-diesel fuel blends with nominal bio-diesel fuel concentrations up to 20% (B20) for static and dynamic applications Suitable for UL 87C diesel exhaust fluids for static and dynamic applications Suitable for use with Gasoline/Alcohol blends up to 15% Methanol							



# MATERIALS: UL Tested Physical Properties

Brand	Compound	File Number	Temperature Range (°C)	Hardness Range	Tensile Str (psi)	Elong (%)	Max Comp Set (%)	Max Tensile Set (%)
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## FLUOROCARBON (FKM) - Continued

Parker O-Ring	<b>V1264-90</b>	MH25709	-40 to 105	82 to 92	2124	143	29.8	4
USE: B, C(Ethanol), D, G Suitable for use with Gasoline/Alcohol blends up to 15% Methanol Suitable for UL 87B diesel/bio-diesel fuel blends with nominal bio-diesel fuel concentrations up to 20% (B20) for static and dynamic applications								
Parker O-Ring	<b>V1436-75</b>	MH25709	-40 to 105	65 to 75	2105	225	6.2	3
USE: A(Water, Dry Chemical), B, D, F, G, H, J Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for UL 87B diesel/bio-diesel fuel blends with nominal bio-diesel fuel concentrations up to 20% (B20) for static and dynamic applications								
Parker O-Ring	<b>VA151-75</b>	MH25709	-40 to 195	68 to 78	1700	170	4	3
USE: B, D, F, G, H, J								
Parker O-Ring	<b>VG273-75 (C)</b>	MH25709	-40 to 60	70 to 80	2050	200	9.2	4
	USE: B, C(Ethanol), D, F, G, H, J Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 25% (E25) for static and dynamic applications Suitable for use with MTBE/gasoline blends containing up to 20% MTBE Suitable for use with Gasoline/Alcohol blends up to 15% Methanol							
Parker O-Ring	<b>VA075-75</b>	MH25709	-40 to 150	75 to 85	2212	175	8	3.7
USE: B, C(Ethanol), D, F, G, H, J Suitable for UL 50E continuous and periodic compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion								
Parker O-Ring	<b>VW076-75</b>	MH25709	-40 to 150	70 to 80	1875	195	6	3.7
USE: B, C(Ethanol), D, F, G, H, J Suitable for UL 50E continuous and periodic compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion								
Freudenberg -NOK	<b>V121</b>	MH16378	-30 to 105	75 to 85	1950	270	11.1	10
	USE: B, C(Ethanol), D, F, G, J Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for use with MTBE/gasoline blends containing up to 15% MTBE Suitable for use with Gasoline/Alcohol blends up to 15% Methanol							
Freudenberg -NOK	<b>V123</b>	MH16378	-40 to 105	75 to 85	2500	130	13.1	0
	USE: B, C(Ethanol), D, F, G, J Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for use with ETBE/gasoline blends containing up to 20% ETBE Suitable for use with MTBE/gasoline blends containing up to 20% MTBE Suitable for use with TAME/gasoline blends containing up to 17% TAME Suitable for use with Gasoline/Alcohol blends up to 15% Methanol							
Freudenberg -NOK	<b>V75</b>	MH16378	-40 to 105	75 to 85	1850	200	5.7	3
USE: A(Water, Dry Chemical, Halon), B, D, F, G, H, J								
Freudenberg -NOK	<b>V75BR</b>	MH16378	-30 to 105	73 to 83	1750	220	4.6	3
USE: B, D, G								



# MATERIALS: UL Tested Physical Properties

Brand	Compound	File Number	Temperature Range (°C)	Hardness Range	Tensile Str (psi)	Elong (%)	Max Comp Set (%)	Max Tensile Set (%)
<b>FLUROSILICONE (FVMQ)</b>								
Engineered Seal Products	<b>L8090</b>	MH65940	-55 to 80	63 to 73	1107	215	4	3
	USE: B, C(Ethanol), D, G Suitable for UL 50E continuous and periodic compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion Suitable for UL 87A and UL 2586A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for UL 87B and UL 2586B 100% (B100) biodiesel fuel or diesel/biodiesel fuel blends with nominal biodiesel fuel concentrations up to 20% (B20) for static and dynamic applications Suitable for UL 87C and UL 2586C diesel exhaust fluids for static and dynamic applications							
Parker O-Ring	<b>L1120-70</b>	MH65940	-54 to 60	66 to 76	880	180	5.6	8
	USE: B, C, D, F, G, H, J Suitable for UL 87A and UL 2586A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for UL 87B and UL 2586B 100% (B100) biodiesel fuel or diesel/biodiesel fuel blends with nominal biodiesel fuel concentrations up to 20% (B20) for static and dynamic applications Suitable for UL 87C and UL 2586C diesel exhaust fluids for static and dynamic applications							
Parker O-Ring	<b>L1465-70</b>	MH25709	-55 to 80	63 to 73	1107	215	4	3
	USE: B, C (Ethanol), D, G Suitable for UL 50E continuous and periodic compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion Suitable for UL 87A and UL 2586A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for static and dynamic applications Suitable for UL 87B and UL 2586B 100% (B100) bio-diesel fuel or diesel/bio-diesel fuel blends with nominal bio-diesel fuel concentrations up to 20% (B20) for static and dynamic applications Suitable for UL 87C and UL 2586( diesel exhaust fluids for static and dynamic applications							
Parker O-Ring	<b>LM100-70</b>	MH25709	-54 to 60	67 to 77	1315	191	3.52	5.7
	USE: B, D, F, G, H, J Suitable for UL 50E continuous and periodic compression applications for enclosures Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6 and 6P Suitable for UL 87A gasoline/ethanol blends with ethanol concentrations up to 85% (E85) for dynamic applications Suitable for UL 87B diesel/bio-diesel fuel blends with nominal bio-diesel fuel concentrations up to 20% (B20) for static and dynamic applications Suitable for UL 87C diesel exhaust fluids for static and dynamic applications							



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