



Polyolester Lubricants



Quality Lubricant Products for the HVAC/R Industry

NL Polyolester (POE) synthetic refrigeration lubricant is recommended for use with all HFC refrigerants such as R407A and R407C. It is also compatible with HCFC refrigerants and it can be used with confidence in systems containing R-22 or HCFC based blends.

NL POEs are made from the highest quality base stocks and provide outstanding performance in a wide variety of air conditioning and refrigeration compressors. Available in 32 cSt and 68 cSt viscosities, these products can be used in most reciprocating, scroll, screw and many centrifugal compressors on the market today.

NL POEs perform well over a wide temperature range. They provide maximum protection and lubrication at higher compressor temperatures. In addition, good refrigerant miscibility at low evaporator temperatures will help promote oil return to the compressor.

NL POEs are based on the most current industry standard formulations. These lubricants contain no extra antiwear additives that can leave deposits. They are compatible with existing mineral oil and alkylbenzene lubricants, making them excellent for retrofitting older systems to HFC refrigerants.

Available Sizes	Part Numbers
1 Pint	PE321P PE681P
1 Quart	PE321Q PE681Q
1 Gallon	PE321G PE681G

TYPICAL PROPERTIES

PROPERTY	Test Method	PE32	PE68
Viscosity, cSt @ 104°F	ASTM D445	32	68
Viscosity, cSt @ 212°F	ASTM D445	5.8	9.3
Flash Point, °F	ASTM D92	496.5	518
Pour Point, °F	ASTM D97	-51	-38.2
Total acid number, mgKOH/g	ASTM D664	<0.02	<0.02
Typical water content, ppm	ASTM D1744	<50	<50
Miscibility Temp, °F	IN HOUSE	-44	-15
Density, g/ml @ 68°F	ASTM D1298	0.977	0.980



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Lubricants Cross Reference Guide

MINERAL OIL	Part #	Viscosity	Equivalent Part #	OEM Part #
NL 150	1501G	150 SUS/32 ISO	Calumet C3, Suniso 3GS	York D, F – Trane 32, 43
NL 300	3001G	300 SUS/68 ISO	Calumet C4, Suniso 4GS	York C – Trane 15, 31, 45
NL 500	5001G	500 SUS/100 ISO	Calumet C5, Suniso 5GS	York E
NL WF 32	WF32	150 SUS/32 ISO	Texaco WF 32	
NL WF 68	1TD	300 SUS/68 ISO	Texaco WF 68	York A

ALKYLBENZENE	Part #	Viscosity	Equivalent Part #	OEM Part #
NL AKB 150	150AKB1G	150 SUS/32 ISO	Zerol 150, Soltex 150	
NL AKB 200R	200AKB1G	200 SUS/46 ISO	Zerol 200TD	
NL AKB 300	300AKB1G	300 SUS/68 ISO	Zerol 300, Soltex 300	

POLYOLESTER	Part #	Viscosity	Equivalent Part #	OEM Part #
NL PE 32	PE321G	150 SUS/32 ISO	Ultra 32-3MAF, Castrol SW32	York K, O – Trane 78
NL PE 68	PE681G	300 SUS/68 ISO	Emkarate 68H, Castrol SW68	York H – Trane 37, 48

Solest® Product Name	Part #	Viscosity	Equivalent OEM Part #
Solest LT 32	SolestLT321G	32 ISO/150 SUS	York K
Solest 46	Solest461G	46 ISO/200 SUS	York J
Solest 68	Solest681G	68 ISO/300 SUS	York H - Trane 37 - Frick 13
Solest 100	Solest1001G	100 ISO/500 SUS	York S
Solest 120	Solest1201G	120 ISO/600 SUS	York L
Solest 150	Solest1501G	150 ISO/700 SUS	
Solest 170	Solest1701G	170 ISO/800 SUS	
Solest 220	Solest2201G	220 ISO/1000 SUS	Castrol SW220
CP 4214-320	CP4214-3201G	320 ISO/1500 SUS	York G
Solest 370	Solest3701G	370 ISO/1700 SUS	
AKB 500 E	AKB500E1G	100 ISO/500 SUS	BVA 100E, Zerol 500



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