



Alkylbenzene Lubricants



Quality Lubricant Products for the HVAC/R Industry

NL Alkylbenzene (AKB) synthetic refrigeration lubricants provide outstanding performance for extended drain intervals and better thermal stability compared to traditional mineral oil. They can be used in systems designed for CFCs (R-12, R-502) and HCFCs (R-22, retrofit blends).

NL Alkylbenzenes are made from the highest quality synthetic base stocks and provide outstanding performance and protection in compressors. These synthetic lubricants do not contain wax and can survive longer than mineral oils at high compressor discharge temperatures. Alkylbenzenes typically run cleaner in systems than mineral based oils. Available in 150 SUS, 200 SUS and 300 SUS viscosities, these products can be used in most reciprocating, rotary vane, and scroll compressors on the market today.

NL Alkylbenzenes are particularly well suited for use in retrofit projects. In some cases, equipment manufacturers suggest the replacement of some mineral oil with alkylbenzene when using HCFC-based retrofit blends. During HFC retrofit projects, using alkylbenzene for initial oil flushing helps remove mineral oil and contaminants in preparation for a final POE flush, thus saving money on POE.

NL AKB 200R meets the strict retrofit recommendations imposed by some equipment manufacturers, such as Copeland.

Available Sizes	Part Numbers
1 Gallon	150AKB1G 200AKB1G 300AKB1G
5 Gallon	150AKB5G 200AKB5G 300AKB5G
55 Gallon	150AKB55G 200AKB55G 300AKB55G

TYPICAL PROPERTIES

PROPERTY	Test Method	AKB150	AKB200R	AKB300
Viscosity, SUS @ 100°F	ASTM D445	150	205	280
Color Gardner	ASTM D1500	1	<1	1
Flash Point, °F	ASTM D92	347	365	365
Pour Point, °F	ASTM D97	-49	-49	-49
Typical water content, ppm	ASTM D1533	<25	<25	<25
Refractive Index	—	1.4865	1.4857	1.4841



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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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