

NXT POE-LT

POE Refrigeration Compressor Lubricant



NXT POE-LT is a polyol ester (POE) refrigeration compressor lubricant specially formulated to provide unsurpassed performance in modern refrigeration applications. This advanced formulation provides superior wear protection and exceptional chemical and thermal stability. These characteristics result in improved equipment reliability and extended lubricant life.

NXT POE-LT utilizes a proprietary combination of advanced friction modifiers and anti-wear additives that bond to metal surfaces inside the compressor. This combination creates an extra layer of protection and lubrication that dramatically reduces friction and wear, resulting in increased compressor efficiency, energy savings and extended compressor life.

NXT POE-LT is compatible with most POE-based lubricants; no flushing is required.

Applications

- Rotary-screw compressors
- Reciprocating compressors
- Scroll compressors
- Centrifugal compressors

Performance Advantages

- **Excellent solubility in HFC and blended refrigerants**
Ensures proper oil return without compromising wear protection by significantly avoiding the dilution of the lubricant's viscosity
- **High viscosity index**
Protects compressor components at high operating temperatures
- **Controls carbon and varnish deposits**
Helps ensure a clean running system
- **Low temperature fluidity**
Oil continues to flow at very low temperatures. Superior pumpability supports oil return back to the compressor
- **Top-off compatible with common oil formulations**
Flushing of the oil is not necessary to convert to NXT POE-LT. This reduces costs and avoids a lengthy downtime for the conversion processes
- **High flash and auto-ignition points**
Reduces lubricant carryover for improved system performance
- **Thermal and oxidative stability**
Resists breakdown of the oil due to high temperatures and chemical reactions, resulting in a very long oil life
- **Enhanced wear protection**
Safeguards vital compressor parts with advanced friction modifiers and anti-wear additives that bond to metal surfaces inside the compressor.
- **Non-toxic & non-hazardous**
Easy to transport, easy disposal, biodegradable



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Typical Properties	NXT POE-LT 22	NXT POE-LT 32	NXT POE-LT 46	NXT POE-LT 68	NXT POE-LT 100
Viscosity Index	167	199	198	201	197
Viscosity cSt @ -20°C	686	821	1070	1708	3347
Viscosity cSt @ 0°C	161	209	266	423	777
Viscosity cSt @ 40°C	25	34.3	42	64	105.3
Viscosity cSt @ 60°C	13.4	18.54	22.32	33.21	52.57
Viscosity cSt @ 80°C	8.2	11.34	13.45	19.56	29.62
Viscosity cSt @ 100°C	5.5	7.59	8.89	12.66	18.56
Flash Point °F (°C)	465 (243)	500 (260)	560 (293)	572 (300)	570 (299)
Pour Point °F (°C)	-54 (-65)	-50 (-58)	-56 (-49)	-54 (-48)	-49 (-45)
Copper Corrosion, 24 Hr	1a	1a	1a	1a	1a

Typical Properties	NXT POE-LT 120	NXT POE-LT 150	NXT POE-LT 170	NXT POE-LT 220	NXT POE-LT 320
Viscosity Index	189	186	172	118	152
Viscosity cSt @ -20°C	4157	5571	9745	--	--
Viscosity cSt @ 0°C	911	1171	1788	4043	4158
Viscosity cSt @ 40°C	115	139	179	220	302
Viscosity cSt @ 60°C	55	66.01	80.56	84	122
Viscosity cSt @ 80°C	31.14	36.14	42.34	39.5	59.63
Viscosity cSt @ 100°C	19.27	22.03	25.02	21.6	33.17
Flash Point °F (°C)	572 (300)	525 (302)	580 (304)	590 (310)	595 (313)
Pour Point °F (°C)	-45 (-43)	-40 (-40)	-38 (-39)	-25 (-32)	-20 (-29)
Copper Corrosion, 24 Hr	1a	1a	1a	1a	1a

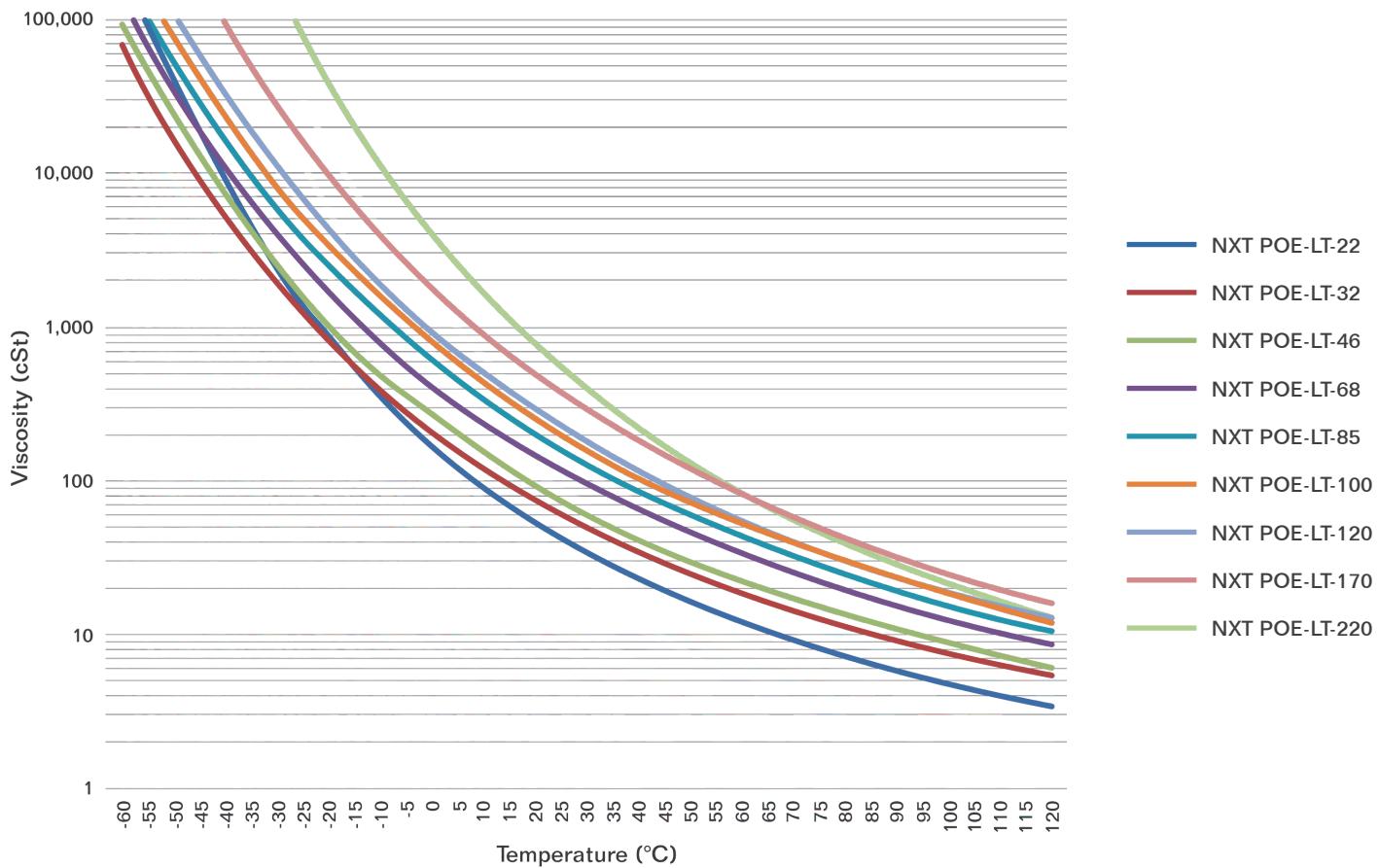
The Isel products provided are approximate equivalents to competitive fluids. The information provided herein should only be used as a general guide, and not serve as a sole resource for determining the correct lubricant for a particular application. Lubricant specifications are subject to change. Please consult an Isel representative to ensure that the replacement fluid is the correct choice for the application. Competitive products are registered and trademarked by their respective owners. Revised B15-4225

Manufactured by:

www.iselinc.com



Viscosity Temperature Curve



About Isel

NXT Refrigeration Lubricants' product range is manufactured by Isel Inc.

For more than 20 years, Isel has been driven to provide the most advanced lubricants at the best value, all supported by unmatched customer service. It's why distributors around the globe trust us to deliver the lubricants they depend on every day. Simply put, we aren't just engineering lubricants, we are helping to engineer your success.

How can we help?

Isel can provide you with the ideal lubricant based on your customers' operating environments, run times and desired preventive-maintenance schedules. For more information about these or other Isel products, please contact your sales representative. We can help you make an appropriate choice for your specific needs.



5266 Highway Avenue
Jacksonville, FL 32254
USA

toll-free: 1-800-503-9533
phone: 904-378-3232
fax: 904-378-9696

email: sales@iselinc.com
web: www.iselinc.com

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