

KRYONLUBE REFRIGERATION LUBRICANT

NEW GENERATION HIGH QUALITY LUBRICANTS FOR REFRIGERATION AND AIR CONDITIONING



POE SERIES

GeneralGas' experience in the world of refrigerant gases and a constantly evolving study in its laboratories have led to the creation of the new KryonLube line of lubricants.

The POE series, has been formulated to guarantee maximum performance in the presence of refrigerant gases, good solubility in the cold gas sucked in by the compressor, low vapour pressure and a controlled propensity to entrainment in the hot refrigerant. These are polyol esters made even better by a modern formulation with additives, which guarantee high chemical and thermal stability. Performance has been optimised for both HFCs and HFOs up to the latest low GWP blends that GeneralGas offers and assists in developing.

In addition, KryonLube Esters are equipped with an additive that is activated during system operation, neutralising moisture permanently, thus reducing acid formation and preventing corrosion and aggression to the compressor.

High viscosity indices ensure compressor protection even at high temperatures, and the low Pourpoint offers a wide application range.

1. Maintenance of lubrication performance throughout the operating life
2. High resistance to hydrolysis
3. Compatibility with systems and materials
4. Excellent insulation capabilities
5. Counteracts moisture formation
6. Optimised solubility and miscibility for a wide range of applications



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POE SERIES

Typologies:

POE OILS	Reference Method	POE 22	POE 32	POE 46	POE 55	POE 68	POE 100	POE 170
Kinematic viscosity @40°C (cST)	ASTM-D445	22	32	46	55	68	100	170
Kinematic viscosity @100°C (cST)	ASTM-D445	4,5	5,9	7,9	9,5	10,2	11,5	16,6
Viscosity Index	ASTM-D2270	139	146	144	146	144	117	107
Pour Point (°C)	ASTM-D97	-51	-53	-51	-45	-48	-36	-27
Flash Point (°C)	ASTM-D92	200	215	234	246	255	271	280
Refractive index	ASTM-D1747	1,4504	1,4536	1,4557	1,4564	1,4572	1,4545	1,4494
Density @ 15°C (g/ml)	ASTM-D4052	0,946	0,960	0,973	0,979	0,982	0,966	0,972
Water (ppm)	ASTM-E1064	40	40	40	40	40	40	40
Acidity (mgKOH/g)	ASTM-D974	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Color (APHA)	ASTM-D1209	25	25	25	25	25	50	50

Applications:

	Conditioning 		Industrial Refrigeration 		Commercial Refrigeration 	
Lubricant	Alternatives	Rotary	Centrifuges	Alternatives	Screw	Scroll
KryonLube POE 22	✓	✓	✓	✓		✓
KryonLube POE 32	✓	✓	✓	✓		✓
KryonLube POE 46	✓	✓	✓	✓	✓	✓
KryonLube POE 55	✓	✓	✓	✓	✓	✓
KryonLube POE 68	✓	✓	✓	✓	✓	✓
KryonLube POE 100			✓	✓	✓	✓
KryonLube POE 170			✓	✓	✓	✓

Use sealed containers. The product loses properties if exposed to air for prolonged periods. Store it between -40°C and +40°C

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Available formats:

POE	22	32	46	55	68	100	170
Litre	✓	✓	✓	✓	✓	✓	✓
5 litres	✓	✓	✓	✓	✓	✓	✓
20 litres	✓	✓	✓	✓	✓	✓	✓
200 litres	✓	✓	✓	✓	✓	✓	✓
1000 litres	✓	✓	✓	✓	✓	✓	✓

