POE Lubricants

ERRECOM's synthetic polyolester (POE) refrigeration lubricants are characterised by high thermal, chemical and hydrolytic stability. Due to their good miscibility, POE lubricants are compatible with all chlorine-free refrigerants, FC refrigerants, and with HFC refrigerants such as R134a, R404a, R507, R410a, R407c. ERRECOM's POE lubricants can also be used with hydrocarbon refrigerants such as propane (R290) and propylene (R1270).

Furthermore, their use has already been successfully tested with low-GWP refrigerants such as HFOs (e.g. R1234yf, R1234ze). Lastly, ERRECOM's POEs have also been tested with new refrigerants designed to replace R22, such as R422a/D and R417a. Our POE lubricants are recommended for use in hermetic, semi-hermetic and open compressors as well as screw compressors and turbochargers (depending on viscosity).

Due to their high viscosity indices, ERRECOM POEs have excellent cold flow properties and a highly stable lubricating film under high-temperature conditions in hydrocarbon applications. ERRECOM's POE lubricants are characterised by high stability and excellent lubrication. POEs are hygroscopic, which means that they tend to absorb water more quickly than non-polar hydrocarbon-based refrigeration oils such as mineral ones, alkyl benzene and PAO. Precisely for this reason, all ERRECOM POEs are ultra-dry and filled in plastic bottles and metal tanks specially designed to ensure protection against moisture.

Physical Quantity Measured (Unit of Measurement)	Analytical Reference Method	POE 22	POE 32	POE 46	POE 55	POE 68	POE 100	POE 170	POE 220
ISO VG	-	22	32	46	55	68	100	170	220
Kinematic Viscosity @ 40°C (cSt)	ASTM-D445	22	32	46	53,9	68	100	170	226,2
Kinematic Viscosity @ 100°C (cSt)	ASTM-D445	4,23	5,5	7,3	8,2	9,5	11,51	16,66	19,34
Viscosity Index	ASTM-D2270	130	140	140	123	140	110	100	97
Pour Point (°C)	ASTM-D97	-48	-50	-45	-42	-42	-36	-36	-30
Flash Point (°C)	ASTM-D93	250	230	230	240	234	300	300	318
Density @ 15°C (g/cm³)	ASTM-D1298	0,95	0,955	0,965	0,965	0,975	0,968	0,96	0,975
Moisture Level (ppm)	ASTM-D6304	50	50	50	50	50	75	75	75
Total Acid (mg KOH/g)	ASTM-D974	<0,03	<0,03	<0,03	<0,03	<0,03	<0,04	<0,04	<0,04

POE 22

Art.-Nr.	Qty.	€				Packaging
OL6011.Q.P2	250 mL	-	24	2592	2592	Plastic Tank
OL6011.M.P2	500 mL	-	12	972	1080	
OL6011.K.P2	1 L	-	12	756	756	
OL6011.UP.P2	1 Gal	-	02	196	196	
OL6011.I.P2	4 L	-	02	196	196	
OL6011.P.P2	5 L	-	02	140	140	
OL6011.K.01	1 L	-	12	672	672	Metal Tank
OL6011.P.01	5 L	-	02	152	152	
OL6011.UV	5 Gal	-	01	-	-	
OL6011.V	20 L	-	01	24	24	
OL6011.T	25 L	-	01	24	24	
OL6011.B	200 L	-	01	04	04	
OL6011.IBC	1000 L	-	01	-	-	IBC Cube

POE 32

Art.-Nr.	Qty.	€				Packaging
OL6012.Q.P2	250 mL	-	24	2592	2592	Plastic Tank
OL6012.M.P2	500 mL	-	12	972	1080	
OL6012.K.P2	1 L	-	12	756	756	
OL6012.UP.P2	1 Gal	-	02	196	196	
OL6012.I.P2	4 L	-	02	196	196	
OL6012.P.P2	5 L	-	02	140	140	
OL6012.K.01	1 L	-	12	672	672	Metal Tank
OL6012.P.01	5 L	-	02	152	152	
OL6012.UV	5 Gal	-	01	-	-	
OL6012.V	20 L	-	01	24	24	
OL6012.T	25 L	-	01	24	24	
OL6012.B	200 L	-	01	04	04	
OL6012.IBC	1000 L	-	01	-	-	IBC Cube

POE 46

Art.-Nr.	Qty.	€				Packaging
OL6015.Q.P2	250 mL	-	24	2592	2592	Plastic Tank
OL6015.M.P2	500 mL	-	12	972	1080	
OL6015.K.P2	1 L	-	12	756	756	
OL6015.UP.P2	1 Gal	-	02	196	196	
OL6015.I.P2	4 L	-	02	196	196	
OL6015.P.P2	5 L	-	02	140	140	
OL6015.K.01	1 L	-	12	672	672	Metal Tank
OL6015.P.01	5 L	-	02	152	152	
OL6015.UV	5 Gal	-	01	-	-	
OL6015.V	20 L	-	01	24	24	
OL6015.T	25 L	-	01	24	24	
OL6015.B	200 L	-	01	04	04	
OL6015.IBC	1000 L	-	01	-	-	IBC Cube

POE 55

Art.-Nr.	Qty.	€				Packaging
OL6055.Q.P2	250 mL	-	24	2592	2592	Plastic Tank
OL6055.M.P2	500 mL	-	12	972	1080	
OL6055.K.P2	1 L	-	12	756	756	
OL6055.UP.P2	1 Gal	-	02	196	196	
OL6055.I.P2	4 L	-	02	196	196	
OL6055.P.P2	5 L	-	02	140	140	
OL6055.K.01	1 L	-	12	672	672	Metal Tank
OL6055.P.01	5 L	-	02	152	152	
OL6055.UV	5 Gal	-	01	-	-	
OL6055.V	20 L	-	01	24	24	
OL6055.T	25 L	-	01	24	24	
OL6055.B	200 L	-	01	04	04	
OL6055.IBC	1000 L	-	01	-	-	IBC Cube

POE 68

Art.-Nr.	Qty.	€				Packaging
OL6016.Q.P2	250 mL	-	24	2592	2592	Plastic Tank
OL6016.M.P2	500 mL	-	12	972	1080	
OL6016.K.P2	1 L	-	12	756	756	
OL6016.UP.P2	1 Gal	-	02	196	196	
OL6016.I.P2	4 L	-	02	196	196	
OL6016.P.P2	5 L	-	02	140	140	
OL6016.K.01	1 L	-	12	672	672	Metal Tank
OL6016.P.01	5 L	-	02	152	152	
OL6016.UV	5 Gal	-	01	-	-	
OL6016.V	20 L	-	01	24	24	
OL6016.T	25 L	-	01	24	24	
OL6016.B	200 L	-	01	04	04	
OL6016.IBC	1000 L	-	01	-	-	IBC Cube

POE 100

Art.-Nr.	Qty.	€				Packaging
OL6017.Q.P2	250 mL	-	24	2592	2592	Plastic Tank
OL6017.M.P2	500 mL	-	12	972	1080	
OL6017.K.P2	1 L	-	12	756	756	
OL6017.UP.P2	1 Gal	-	02	196	196	
OL6017.I.P2	4 L	-	02	196	196	
OL6017.P.P2	5 L	-	02	140	140	
OL6017.K.01	1 L	-	12	672	672	Metal Tank
OL6017.P.01	5 L	-	02	152	152	
OL6017.UV	5 Gal	-	01	-	-	
OL6017.V	20 L	-	01	24	24	
OL6017.T	25 L	-	01	24	24	
OL6017.B	200 L	-	01	04	04	
OL6017.IBC	1000 L	-	01	-	-	IBC Cube

POE 170

Art.-Nr.	Qty.	€				Packaging
OL6020.Q.P2	250 mL	-	24	2592	2592	Plastic Tank
OL6020.M.P2	500 mL	-	12	972	1080	
OL6020.K.P2	1 L	-	12	756	756	
OL6020.UP.P2	1 Gal	-	02	196	196	
OL6020.I.P2	4 L	-	02	196	196	
OL6020.P.P2	5 L	-	02	140	140	
OL6020.K.01	1 L	-	12	672	672	Metal Tank
OL6020.P.01	5 L	-	02	152	152	
OL6020.UV	5 Gal	-	01	-	-	
OL6020.V	20 L	-	01	24	24	
OL6020.T	25 L	-	01	24	24	
OL6020.B	200 L	-	01	04	04	
OL6020.IBC	1000 L	-	01	-	-	IBC Cube

POE 220

Art.-Nr.	Qty.	€				Packaging
OL6021.Q.P2	250 mL	-	24	2592	2592	Plastic Tank
OL6021.M.P2	500 mL	-	12	972	1080	
OL6021.K.P2	1 L	-	12	756	756	
OL6021.UP.P2	1 Gal	-	02	196	196	
OL6021.I.P2	4 L	-	02	196	196	
OL6021.P.P2	5 L	-	02	140	140	
OL6021.K.01	1 L	-	12	672	672	Metal Tank
OL6021.P.01	5 L	-	02	152	152	
OL6021.UV	5 Gal	-	01	-	-	
OL6021.V	20 L	-	01	24	24	
OL6021.T	25 L	-	01	24	24	
OL6021.B	200 L	-	01	04	04	
OL6021.IBC	1000 L	-	01	-	-	IBC Cube