

# KYNOS REFCOM ERL

## Refrigeration Compressor Oils

KYNOS LUBRICATION PRIVATE LIMITED

+91 8141800752 [www.kynosoils.com](http://www.kynosoils.com)[info@kynosoils.com](mailto:info@kynosoils.com) / [sales@kynosoils.com](mailto:sales@kynosoils.com)

### REFCOM ERL: Advanced POE (Polyol Ester) Refrigeration Compressor Oil

REFCOM ERL is a series high performance lubricant that combine specially blended Polyol Ester (POE) refrigeration lubricants with ashless additives to provide superior protection for HFC refrigeration systems.

It offers exceptional solubility and superior lubricity in HFC and Blended Refrigerants. It has exceptional chemical and thermal stability, and offer a very long service life. They are safe to handle in all refrigerant applications

### Applications

REFCOM ERL lubricants are ideal for use in HFC refrigeration systems, offering excellent lubrication and protection for compressors and other critical components.

### Benefits

- Unsurpassed solubility in HFC and blended refrigerants
- Excellent low temperature fluidity
- High viscosity index & Long fluid life
- Excellent film strength and anti-wear properties
- Top-off compatibility with most other POE refrigeration compressor fluids
- Excellent resistance against water contamination
- Excellent rust and corrosion protection
- Allows quick and easy refrigerant conversions
- Avoids copper plating
- Enhanced resistance against water contamination

### Gas Type Compatibility

REFCOM ERL is suitable for processing the following gases:

R-23	R134a	R404a	R410a	R410b	R407c
R410b	R417a	R422a	R422d	R427a	R507/507a

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#### Formulated to make conversions easier

Converting a HCFC (i.e. R-22) system to HFC (i.e. R-507, R-134a) often requires that you flush any mineral oil fluid from the system. Most competitive fluids will require that you have no more than 5% of the existing mineral oil remaining in the system. To reach this 5% level multiple flushes are often required, which can be very time consuming and costly. REFCOM ERL makes systems conversions easier by being able to accommodate much high levels of residual mineral oil.

ASRAE#	Recommended # of Residual Mineral Oil	
	Competitive Formulations	Series REFCOM POE
R-134a	Max 5%	10 – 15%
R-507	Max 5%	10 – 15%

#### Typical Performance Data

Properties	Test Method	REFCOM ERL									
		32	46	55	68	80	100	125	150	170	220
Viscosity @ 40 °C, mm <sup>2</sup> /s	ASTM D-445	32	46	55	68	80	98	125	150	174	220
Base Oil Type	-	Polyol Ester									
Appearance	Visual	Bright and Clear									
Colour APHA	MD 31	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Viscosity Index	ASTM D-2270	140	149	145	144	144	144	144	145	148	120
Flash Point, °C Minimum	ASTM D-92	>230	>230	>234	>234	>240	258	268	287	287	>260
Pour Point, °C Max	ASTM D-97	< -50	< -45	< -43	< -42	< -40	< -36	< -36	< -36	< -36	< -30
Specific Gravity@15°C	ASTM D-1298	>0.910	>0.910	>0.910	>0.910	>0.910	>0.910	>0.910	>0.910	>0.910	>0.910
Water Content	ASTM D-6304	<50	<50	<50	<50	<50	<100	<100	<100	<100	<50
Total Acid Number (TAN)	ASTM D-664	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.09

\*All performance data on this Technical Data Sheet are indicative only and may vary during production.