AIMOL Cooltech POE

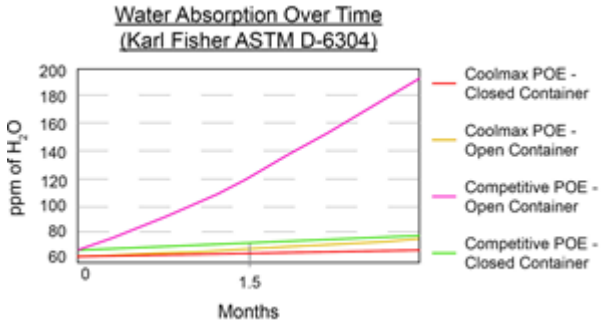
APPLICATION

AIMOL Cooltech POE is a series high performance lubricants that combine specially blended Polyol Ester (POE) refrigeration lubricants with ashless additives to provide superior protection for HFC refrigeration systems. **AIMOL Cooltech POE** offers exceptional solubility and superior lubricity in HFC and Blended Refrigerants. **AIMOL Cooltech POE** lubricants have exceptional chemical and thermal stability, and offer a very long service life. They are safe to handle in all refrigerant applications

BENEFITS

- Unsurpassed solubility in HFC and blended refrigerants
- Excellent low temperature fluidity
- High viscosity index
- 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
- Very long fluid life
- Allows quick and easy refrigerant conversions
- Avoids copper plating
- **Enhanced resistance against water contamination**

Most competitive **AIMOL Cooltech POE** compressor fluids are highly susceptible to water contamination. The hygroscopic nature (high affinity for water) of most POE compressor fluids Excessive water contamination will lead to decreased bearing life and premature fluid change outs. **AIMOL Cooltech POE** offers enhanced resistance to water contamination.



Even in an open container **AIMOL Cooltech POE** has shown to absorb less water than most competitive POE fluids

- 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 flushes 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.

AIMOL Cooltech POE 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 Cooltech POE
R-134a	Max 5%	10-15%
R-507	Max 5%	10-15%

TECHNICAL DATA SHEET

Gas type compatibility

AIMOL Cooltech POE is suitable for processing the following gases:

R23	R134a	R404a	R410a	R410b	R407c
R410b	R417a	R422a	R422d	R427a	R507/507a

TYPICAL FIGURES

	Test method	22	32	46	68	100	150	170	220
Appearance		Bright & clear							
Base oil type		Polyol ester							
Colour, Gardner	ISO 2049	<1	<1	<1	<2	<2	<2	<2	<2
Density @ 20 °C, kg/dm3	ISO 12185	0,994	0,982	0,975	0,968	0,959	0,960	0,960	1,020
Flash point, COC, °C	ISO 2592	>240	>250	>250	>250	>260	>270	>270	>260
Pour point, °C	ISO 3016	>-50	<-50	<-50	<-45	<-30	<-30	<-32	<-30
Kinematic, mm²/s, viscosity @	ISO 3104								
• 100 °C		5	6	7	10	11	15	16	23
• 40 °C		22	32	46	68	98	150	174	230
Viscosity index	ISO 2909	125	120	120	110	110	95	95	120
Acid number mg KOH/g	ISO 6618	0,03	0,07	0,07	0,07	0,08	0,08	0,09	0,09
Water content, ppm	MO-10-001	<100	<100	<100	<100	<100	<100	<100	<100
Copper corrosion	ASTM D130	1a	1a	1a	1a	1a	1a	1a	1a

TECHNICAL DATA INFO LINE

Should you require additional information or advice on AIMOL products, please contact us as per the details below.

HEALTH AND SAFETY

AIMOL Cooltech POE has no adverse health effects provided it is used as directed.

DISCLAIMER

Typical figures as indicated may vary per production cycle and can change at manufacturers' option. Specifications, however, are guaranteed. Because of continuous product research and development, the information within this data sheet is subject to change without any notification. Although every effort is made to ensure accurate information, A.I.M. bv accepts no liability for any loss or damage suffered caused by the incorrectness and/or incompleteness of this text, and as a result of using this product for any application other than explicitly stated in this data sheet.