Technical Data Sheet

















Coolmax POE

Advanced HFC refrigeration compressor fluid

Description

Coolmax POE is a high performance lubricant that combines specially blended polyolester (POE) refrigeration lubricants with ashless additives to provide superior protection for HFC refrigeration systems. Coolmax POE offers exceptional solubility and superior lubricity in HFC and blended refrigerants.

Coolmax POE lubricants have exceptional chemical and thermal stability, and offer a very long service life.

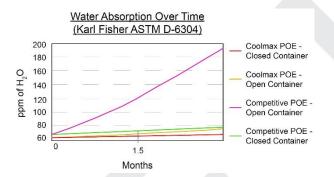
Benefits

- Unsurpassed solubility in HFC and blended refrigerants
- Excellent low temperature fluidity
- High viscosity index
- Excellent film strength and antiwear 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 POE compressor fluids are highly susceptible to water contamination. The hygroscopic nature (high affinity for water) of most POE compressor fluids will lead to decreased bearing life and premature fluid change

outs. Coolmax POE offers enhanced resistance to water contamination.



Even in an open container Coolmax POE has shown to absorb less water then most competitive PEO 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 then 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.

Coolmax POE makes systems conversions easier by being able to accommodate much high levels of residual mineral oil.

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

All performance data on this Technical Data Sheet are indicative only and can vary during production

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Gas type compatibility

Coolmax POE is suitable for processing the following gases:

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

Typical performance data

	Test method	32	46	55	68	80	100	125	150	170	220	320
Appearance		Bright & clear										
Base oil type		Polyol ester										
Colour APHA	MD 31	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Density @ 15 °C, kg/dm3	ISO 12185	0.950	0.950	0.951	0.952	0.952	0.953	0.955	0.960	0.960	1.020	0.970
Acid number mg KOH/g	ISO 6618	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.09	< 0.05
Kin. viscosity 40 °C, cSt	ISO 3104	32	46	55	68	80	98	125	150	174	230	300
Viscosity index	ISO 2909	149	149	145	144	144	144	144	145	148	120	92
Water content, ppm	MO-10-001	<50	<50	<50	<50	<50	<100	<100	<100	<100	<50	<50
Pour point, °C	ISO 3016	<-50	<-45	<-43	<-42	<-40	<-36	<-36	<-36	<-36	<-30	-24
Flash point, COC, °C	ISO 2592	>230	>230	>234	>234	>240	258	268	278	278	>260	280