

Description

The Refrigeration POE Ester lubricant range is based on synthetic esters formulated for performance in refrigeration and air conditioning compressors using HFC, CFC or HCFC refrigerants. These synthetic lubricants are chemically and thermally stable for cleaner operating performance and provide wear protection for steel or aluminum surfaces for longer system life and system efficiency. They are miscible over the required broad temperature ranges found in appliance or commercial / industrial systems.

Gas type compatibility

Syntech Refrigeration POE Ester Oils are suitable for processing the following gases:

R23	R417a
R134a and R1234yf	R422a
R404a	R422d
R410a	R427a
R410b	R507/R507a
R407c R410b	

Technical Data

	Test Method	22	32	46	55	68	100	125	150	170	220	320
Appearance		Bright and clear										
Base oil type		Polyol Ester										
Colour, Gardner	ISO 2049	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
Density @ 20 °C, kg/dm ³	ISO 12185	0.994	0.982	0.975	0.972	0.968	0.959	0.959	0.960	0.960	1.020	0.970
Flash Point, COC, °C	ISO 2592	>240	>250	>250	>250	>250	>260	>265	>270	>270	>260	280
Pour Point, °C	ISO 3016	<-50	<-50	<-50	<-45	<-45	<-30	<-30	<-30	<-32	<-30	<-24
Kinetic Viscosity, cSt @ 100 °C 40 °C	ISO 3104	5	6	7	8	10	11	13	15	16	23	22
		22	32	46	55	68	98	125	150	174	230	300
Viscosity Index	ISO 2909	125	120	120	115	110	110	105	95	95	120	92
Acid number mg KOH/g	ISO 6618	0.03	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	<0.05
Water content, ppm	MO-10-001	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Copper Corrosion	ASTM D130	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a

The content of this data sheet is given in good faith but without warranty.