

## ULTRACHEM R-POE SERIES

### POE REFRIGERATION LUBRICANTS

#### Applications:

Ultrachem R-POE Series are fully synthetic lubricants based on high performance polyol ester (POE) technology. This series has been designed specifically for use in demanding refrigeration systems and is compatible with both HCFC and HFC refrigerants including R-134a. These lubricants are available in a range of ISO 22 to ISO 220.

#### Typical Industrial Applications:

- Refrigeration Compressors
- Air Conditioning Compressors

#### Performance Benefits:

- Compatible with hydrochlorofluorocarbon (HCFC) & hydrofluorocarbon (HFC) refrigerants
- Suitable for use with R-134a, R-407C, and R-410A
- Greater biodegradability than mineral oils and alkyl benzene based oils

TYPICAL PROPERTIES	TEST METHOD	R-POE 22	R-POE 32	R-POE 46	R-POE 68	R-POE 100	R-POE 150	R-POE 220
ISO Grade	ASTM D2422	22	32	46	68	100	150	220
Viscosity @ 40°C, cSt	ASTM D445	23.5	31.6	47.1	64.9	95.7	148	221.3
Viscosity @ 100°C, cSt	ASTM D445	4.7	5.6	7.0	8.3	10.6	14.1	18.1
Viscosity Index	ASTM D2270	120	115	105	96	93	91	88
Flash Point, °C/°F	ASTM D92	252/486	250/482	258/496	256/493	271/520	279/534	254/489
Pour Point, °C/°F	ASTM D97	-59/-74	-55/-67	-43/-45	-39/-38	-34/-29	-27/-17	-28/-18
Total Acid Number, mg KOH/g	ASTM D974	0.02	0.02	0.03	0.02	0.02	0.01	0.03
Moisture, ppm (low temp. miscibility, 10% oil, °C)	ASTM D1533	32	22	33	18	20	25	27
R-134a		<-50	<-50	<-50	<-35	<-35	<-50	<-50
R-407C		<-35	<-35	<-35	<-35	<-18		
R-410A		<-40	<-45	<-40	<-30	<-15		
Refractive Index @ 20°C	ASTM D1218	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Density	ASTM D4052	8.35	8.21	8.14	8.07	8.07	8.06	8.02
Specific Gravity	ASTM D1298	1.00	0.99	0.97	0.97	0.97	0.96	0.96

#### HEALTH & SAFETY

To obtain an MSDS on this or any other Ultrachem product, please contact your representative.

#### TECHNICAL SUPPORT

To learn more about Ultrachem products and applications please contact us at [info@ultracheminc.com](mailto:info@ultracheminc.com)



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