



FOR INDUSTRY PROFESSIONALS

Technical Data Sheet

TP-POE (ISO 32 - 220)

Typical Properties

Property	Method	Units					
ISI Viscosity Grade			32	32-3MAF	68	100	220
Viscosity	ASTM D-445	cSt @ 40 °C	32	30	65	101	220
Viscosity	ASTM D-445	cSt @ 100 °C	5.6	5.6	8.8	11.3	19
Viscosity Index	ASTM D-2270		117	123	109	98	96
Density 20°C(68 °F)	ASTM D-4052	g/cc Lbs /gallon	0.982 8.20	8.20 0.982	0.972 8.11	0.964 8.04	0.98 8.165
Flash Point	ASTM D-92	°C (°F)	255 (464)	240 (464)	260 (500)	265 (509)	>280 (536)
Pour Point*	ASTM D-97	°C (°F)	-54 (-65)	-57 (-71)	-42 (-44)	-36 (-33)	-27 (-17)
Total Acid Number	ASTM D-664	mg KOH/g	<0.05	0.02	<0.05	<0.05	<0.05
Water Content**	ASTM D-1744	ppm	<50	<50	<50	<50	<50
Sealed Tube Stability (175°C, 14 days)***	ASHRAE 97		pass	pass	pass	pass	pass

*Pour Point will be lowered by dilution from refrigerant (see miscibility charts)

**Bulk Tank Truck

*** Sealed Tube uses steel, aluminum, copper and 1000 ppm water, pass equals no change

DESCRIPTION:

Custom formulated Polyolester (POE) synthetic lubricant suitable for certain refrigeration compressor applications such as with HFC and hydrocarbon refrigerants. Benefits include excellent lubricity, improved low temperature characteristic and higher efficiency. POEs may also be suitable for CO2 applications, consult with BVA for best selection. POE type synthetic oils contain no wax and therefore have no Floc Point, miscibility charts for specific refrigerants are used.

Typical Applications	
Reciprocating	√
Rotary Vane	√
Scroll	√
Centrifugal	√
Screw	√

Trade Pro supplies a full viscosity range and specialty formulations of POE refrigeration oils specifically designed for your application.

Typical Properties not intended for use as specifications