

# PURPLE CHILL™

## POLYOL ESTER (POE) REFRIGERATION LUBRICANTS

The Purple Chill™ line of Polyol Ester (POE) lubricants is specifically designed for air conditioning and refrigeration compressors. These lubricants are formulated from high quality materials using a customized manufacturing process. The Purple Chill POE line of refrigeration lubricants are manufactured in partnership with Calumet Refining, LLC at their Louisiana, MO facility. This facility pioneered the development of POE synthetic lubricant technology and has over 50 years of experience producing high quality POE lubricants.

Purple Chill™ POE refrigeration lubricants are recommended for use with all HFC refrigerants and are also compatible with a wide range of other refrigerants including CFCs, HCFCs, HFOs, and CO<sub>2</sub> - making Purple Chill POE refrigeration lubricants ideal for OEM factory fill as well as retrofit solutions.

Initially available in ISO 32, and ISO 68 viscosity grades, Purple Chill POE refrigeration lubricants can be used with reciprocating, scroll, screw, and centrifugal compressors in service today.

### Performance Advantages

- » Outstanding lubricity and corrosion protection at higher temperatures
- » Excellent miscibility at low evaporator temperatures help facilitate oil return
- » Suitable for use in OEM compressors
- » Recommended for use with all HFC refrigerant systems such as R-410A, R-134a and R-407 Series
- » Custom formulation capability available to meet specific requirements



**AVAILABLE PACKAGING:** 55 Gallon Drum / 5 Gallon Pail / 1 Gallon Can / 1 Quart Can

Typical Properties	Method	Purple Chill 32S	Purple Chill 68S
Viscosity cSt @ 40 °C	ASTM D445	30.5	68.0
Viscosity cSt @ 100 °C	ASTM D445	5.4	9.7
Viscosity Index	ASTM D2270	129	125
Pour Point, °C	ASTM D97	-57	-49
Flash Point, °C	ASTM D92	270	279
Color	ASTM D1500	L0.5	L0.5
Total Acid Number, mg KOH/g	ASTM D664	0.02	0.02
Water Content, ppm	ASTM D1533	<25	<25
Density, lb/gal @ 15.6 °C	Conversion	8.26	8.26

\* Properties are typical and may vary.

### PAO REFRIGERATION LUBRICANTS

Royal Purple® offers a Polyalphaolefin (PAO) synthetic refrigeration lubricant specifically designed for use with ammonia refrigerant systems. Contact your local Royal Purple sales representative to learn more about Royal Purple Uni-Temp™ refrigeration lubricant.

