



FPC LUBRICANTS

FPC REF PV SERIES POE REFRIGERATION LUBRICANTS

APPLICATIONS:

FPC REF PV Series are 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 | FPC REF PV022 | FPC REF PV032 | FPC REF PV046 | FPC REF PV068 | FPC REF PV100 |
|--|-------------|---------------|---------------|---------------|---------------|---------------|
| ISO Grade | ASTM D2422 | 22 | 32 | 46 | 68 | 100 |
| Viscosity @ 40°C,cSt | ASTM D445 | 23.5 | 31.6 | 47.1 | 64.9 | 95.7 |
| Viscosity @ 100°C,cSt | ASTM D445 | 4.7 | 5.6 | 7.0 | 8.3 | 10.6 |
| Viscosity Index | ASTM D2270 | 120 | 115 | 105 | 96 | 93 |
| Flash Point, °C/°F | ASTM D92 | 252/486 | 250/482 | 258/496 | 256/493 | 271/520 |
| Pour Point, °C/°F | ASTM D97 | -59/-74 | -55/-67 | -43/-45 | -39/-38 | -34/-29 |
| Total Acid Number, mg KOH/g | ASTM D974 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 |
| Moisture, ppm (low temp. miscibility, 10% oil, °C) | ASTM D1533 | 32 | 22 | 33 | 18 | 20 |
| R-134a | | <-50 | <-50 | <-50 | <-35 | <-35 |
| 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 |
| Density | ASTM D4052 | 8.35 | 8.21 | 8.14 | 8.07 | 8.07 |
| Specific Gravity | ASTM D4052 | 1.00 | 0.99 | 0.97 | 0.97 | 0.97 |