



FOR INDUSTRY PROFESSIONALS

Technical Data Sheet

TP-POE (ISO 32 - 220)

Typical Properties

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

Top Tech 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