

Solvay Specialty Polymers FOMBLIN® Y L-VAC 14/6 PFPE Pump Oil

Category : Fluid , Lubricant , Perfluoropolyether (PFPE)

Material Notes:

FOMBLIN Y fluids are a mixture of fluorinated polymers obtained by a photochemical process that begins with hexafluoropropylene. Since the FOMBLIN chemical chain contains only carbon, fluorine, and oxygen atoms, the PFPEs have exceptional properties such as: low vapor pressure; chemical inertness; non-flammability; high thermal stability; no flash or fire point; low toxicity; excellent compatibility with metals, plastics, elastomers; low volatility; good aqueous and non-aqueous solvent resistance; high dielectric properties; low surface tension; good radiation stability; and environmentally friendly-do not damage the ozone. Information provided by Solvay Solexis, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-FOMBLIN-Y-L-VAC-146-PFPE-Pump-Oil.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|---------------------------------------|------------------------------|
| Density | 1.89 g/cc | 0.0683 lb/in ³ | ASTM D891 |
| Viscosity Measurement | 97 | 97 | Viscosity Index; ASTM D2270 |
| Kinematic Viscosity | 148 cSt @Temperature 20.0 Â°C | 148 cSt @Temperature 68.0 Â°F | ASTM D445 |
| Molecular Weight | 2500 g/mol | 2500 g/mol | |
| Vapor Pressure | 2.67e-10 bar @Temperature 20.0 Â°C | 2.00e-7 torr @Temperature 68.0 Â°F | Knudsen |
| | 5.33e-7 bar @Temperature 100 Â°C | 0.000400 torr @Temperature 212 Â°F | Knudsen |
| Evaporation Loss | 2.6 % | 2.6 % | 22 hrs. at 149Â°C; ASTM 2595 |
| Surface Tension | 22 dynes/cm | 22 dynes/cm | ASTM D1331 |

| Thermal Properties | Metric | English | Comments |
|----------------------|----------------------------------|-------------------------------------|----------|
| Heat of Vaporization | 33.5 J/g @Temperature 200 Â°C | 14.4 BTU/lb @Temperature 392 Â°F | |
| Pour Point | -45.0 Â°C | -49.0 Â°F | ASTM D97 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|------------------------------|
| Refractive Index | 1.296 | 1.296 | n ₀ ²⁰ |

| Descriptive Properties | Value | Comments |
|--------------------------|-------------------------|----------|
| Specific Oil Consumption | 0.6 cm ³ /hr | |
| Ultimate Total Pressure | 0.0014 torr | |

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