

Description:

Apiezon Oil J is not vapor diffusion pump oils but is a lubricating oil intended for use in rotating gland seals and similar equipment where a good, moderately viscous oil and low vapor pressure are required. This oil is an excellent lubricant, as are the Apiezon greases. Apiezon Oil J is moderately viscous with an estimated vapor pressure at 20 °C of 10⁻⁸ torr.

Specifications:

	Oil J
Ultimate Pressure obtainable, torr	-
Average boiling point, °C at 1 torr	0
Specific gravity at 20 °C Specific Gravity at 30 °C	0.918 0.911
Density g/mL at 10 °C Density g/mL at 20 °C Density g/mL at 30 °C Density g/mL at 40 °C	0.923 0.918 0.909 0.903
Flash Point, Pensky-Martins, oF closed (ASTM D93 and IP 36/63, open fire)	590 665 >700
Viscosity, dynamic at 40 °C	3005
Pour Point, ASTM, oF (D97/66)	30
Coefficient of expansion per °C (a)	0.00070
Coefficient of expansion per °C (b)	0.00083
Average Molecular Weight	1130
Refractive Index at 20 °C (c)	-
Thermal Conductivity w/m/ °C	0.167
Specific heat at 25 °, cal/g	0.48

(a) over 20 °C to 30 °C (ASTM D 1903/61T)

(b) over 10 °C to 40 °C

(c) ASTM D 1807-62T Sodium Line

Precautions

PRECAUTIONS: Apiezon Products - Health and Safety

Apiezon products have been widely and safely used in vacuum distillation apparatus in both industry and laboratories for a number of years. As a result they should not present a health hazard assuming normal standards of industrial hygiene and safety are followed in their handling.

All Apiezon products are based on petroleum products of a low order of acute toxicity. However, certain individuals develop a rash after repeated contact. Therefore, it is recommended that gloves be worn to handle Apiezon. If Apiezon material is inadvertently in contact with the skin, wipe the area carefully, then cleanse thoroughly using a mild soap. Should any Apiezon products be heated for application, vent the fumes and avoid breathing the warm vapors. In terms of explosion and fire, Apiezon products are considered non-hazardous.