Stability Purity Structure Performance

TorrLube® Company

Data Sheet

TorrLube Linear Purity Grease

Typical Properties of TorrLube® Linear Purity Grease

TorrLube Linear Purity Grease represents the best that fluorine chemistry can achieve in synthesizing perfluoropolyether molecules for unsurpassed extreme temperature serviceability, low volatility, and minimum viscosity changes as a function of temperature. Linear Purity Grease is a PTFE thickened, linear PFPE fluid possessing the following attributes:

- Excellent Thermooxidative Stability
- Wide Temperature Serviceability From -65 to 300˚C
- Excellent Compatibility with Plastics and Elastomers
- Resistance to Aggressive Chemicals Including Fuels
- Ultrafiltered
- Extremely Low Volatility

Degrees Centigrade	Vapor Pressure, Torr
200	3.4 x 10-8
225	3.8 x 10-8
250	5.2 x 10-7

Typical Properties Base Fluid:	Method	Result
Color	Visual	Clear
KV100ºC	ASTM D445	50 mm^2/s
KV40ºC	ASTM D445	160 mm^2/s
Viscosity Index	ASTM D2270	360
Flash Point	ASTM D92	None
Pour Point	ASTM D97	-75ºC

Typical Properties of the Grease:		
Color	Visual	White
Appearance	Visual	Smooth
Po	ASTM D217	276
P60	ASTM D217	278
NLGI Grade	ASTM D217	2
Oil Separation, 24h at 100ºC	ASTM D6084	3.4%
Evaporation, 24h at 100ºC	CTM	0.0%
Density, 25ºC	CTM	1.9 g/cc
Particulate Contamination	FTM 791, 3005.3	TBD
Wear Characteristics	ASTM D2266	1.49 mm +/- 0.01mm
Apparent Viscosity, -40ºC	Brookfield Viscometer	2.4 x 10^6 mPa.s
T-C Spindle, 1 RPM		
TGA	CTM	>450ºC
PDSC, 210ºC	ASTM D5483	No Reaction

Notes:

TGA is thermogravimetric analysis conducted in an inert atmosphere of nitrogen. The temperature reported is the temperature at which rapid evaporation occurs.

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