

InfinX HaloVac® 601

PFPE Grease Engineered for High Vacuum and Extreme Applications

PFPE grease designed to provide superior stability and performance in extreme temperature applications

InfinX HaloVac® 601 is a specialty grease that is part of the InfinX MRO KF Series, a new product line comprised of fluorinated lubricants developed using perfluoropolyether (PFPE) chemistry. This specialty grease has been designed and formulated to showcase the peak potential of what fluorinated chemistry can offer. Composed of linear PFPE fluid and thickened using superior, non-irradiated micro powders of PTFE (polytetrafluorethylene), InfinX HaloVac® 601 provides unsurpassed serviceability in extreme temperature applications through its low volatility and minimal viscosity changes resulting from temperature.

Typical Properties Comparison: InfinX HaloVac® 601 vs Competition

Properties	HaloVac® 601	Leading Competitor
Base Oil	Linear PFPE	Linear PFPE
Viscosity, cSt <small>ASTM D445</small>		
40°C	157	140
100°C	49	45
Viscosity Index <small>ASTM D2270</small>	358	340
Pour Point, °C <small>ASTM D97</small>	-75	-73
Thickener	PTFE	PTFE
NLGI Grade <small>ASTM D217</small>	2	2
Drop Point, °C <small>ASTM D2265</small>	192	169
Oil Separation, 30hr., @ 150°C, % <small>ASTM D6084</small>	6.05	9.00
Oil Volatility, 30hr., @ 150°C, %	0.26	0.26
Wear Characteristics, mm <small>ASTM D2266</small>	0.923 ± 0.014	0.868 ± 0.045
Appearance	Smooth – Light Tan	Smooth – Light Tan

Typical Applications:

InfinX HaloVac® 601 is a nonflammable and nonreactive, specialty grease designed for use in the following extreme and hazardous operating conditions:

- High Vacuum Environments
- In the Presence of Oxidizers
- In the Presence of Rocket Fuels

InfinX HaloVac® 601 is typically used in the following applications, as well as many others:

- Assembly Lubricant for O-rings
- Assembly Lubricant for Elastomers
- Ball and Roller Bearings
- Gear Systems
- Robotics

Key Performance Attributes:

Below is a list of the key performance attributes that make InfinX HaloVac® 601 the ideal lubricant for vacuum applications:

- Excellent Thermo-oxidative Stability
- Resistance to Aggressive Chemicals Including Fuels
- Extremely Low Volatility
- Compatible with Most Plastics & Elastomers
- Ultrafiltered and Deaerated
- Chemically Inert
- Non-toxic & Non-hazardous

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