

# Gemini<sup>®</sup> High Level PFPE Greases EHV Series for Ultra High Vacuum、Semiconductor、Electronic

## Introduction:

High Level PFPE greases for ultra high vacuum、semiconductor、electronic EHV series are top level vacuum greases for high demanding semiconductor and electronic manufacturing.

EHV series have been specially distilled to remove the more volatile、lighter molecules that might evaporate easily, also eliminated metals and reactive compounds or large particles. They have merits of both super high molecular weight and ultra low vapor pressure. Those traits enable EHV to perfectly serve in ultra high vacuum、clean room、high radioactive and other significant strategic areas.

## EHV Introduction:

EHV series derived from aerospace applications, they have ultra low vapor pressures and can work around 300°C, their chemically inert properties are the best in all types of PFPE like K、Y、Z, they are perfect for extreme severe environments and nonreactive safe even in liquid oxygen. In most terrestrial applications EHV will literally never dry out.

## Typical Properties:

Type	EHV-F1	EHV-E5	EHV-T7
Color	white	white	white
NLGI	2	2	2
Vaper Pressure			
@20°C, Torr	$5 \times 10^{-12}$	$1 \times 10^{-9}$	$3 \times 10^{-14}$
@100°C, Torr	$2 \times 10^{-8}$	$8 \times 10^{-7}$	$1 \times 10^{-9}$
Knudsen			
@200°C, Torr	$1 \times 10^{-5}$	$1 \times 10^{-4}$	$2 \times 10^{-6}$
Temperature Range, °C	-36~204	-25~300	-15~310
Base Oil Density, °C, g/ml	1.94	1.95	1.95
Oil Pour Point, °C	-36	-25	-15
Viscosity			
@20°C, cSt	520	1800	2600
@40°C, cSt	160	510	750
ASTM D445			
@100°C, cSt	18	46	65
Base Oil Evaporation Loss, ASTM D2595, 204°C, 22hr, wt%	<3	<0.6	<0.4
Base Oil Evaporation Loss, ASTM D2595, 260°C, 22hr, wt%	NA	0.8	0.6
Oxidation Stability ASTM D942, 100°C, 600hr	0 psig O <sub>2</sub> pressure drop	0 psig O <sub>2</sub> pressure drop	0 psig O <sub>2</sub> pressure drop
Liquid Oxygen Impact ASTM D2512	Pass	Pass	Pass

**EHV Applications:**

Sealant or lubricant in vacuum systems

Precision electronic components、 sensors and PCBs

Medical devices、 robots、 optical instruments and glass manufacturing

Clean Room all actuating and rotational parts

High Temp Oven conveyor chain and bearing

Pressure relief valve lubricant

High temperature bearing、 valve、 slide block、 screw rod and O-ring

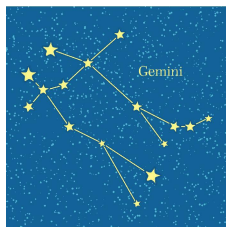
Military

Any use that requires high temperature stability、 exceptional low vapor pressure、 extreme low metal content、 resistant to high radioactive and high demanding chemical inertness

**Attentions:**

- . Do not mix greases of different types. Thoroughly remove old grease before applying. We suggest use our PFS-190 as PFPE greases cleaning agent.
- . During processing, wear protection clothes, be careful of eye、 skin contact.
- . Keep the container sealed and store in cool、 well ventilated locations.

**Packaging/Transport:** 800g,1Kg,5Kg plastic container. Not classified as dangerous in the meaning of transport regulations.



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