

# Gemini<sup>®</sup> Ultra High Temp PFPE Oils and Greases

## UHT Series

### Introduction:

UHT series have highest viscosity and lowest evaporation loss in PFPE products lines, they are using in high temperature environment above 280°C. UHT-500 / 750 / 1000 are ultra high temp PFPE oils, continuous working temp can reach to 400°C, will not form sludge or gummy deposits but evaporate to the air at temp over 400°C. UHT have several formulations to suit in more specific conditions under high temperature. UHT-AC / ACX are anti-corrosive greases that can reach to 300°C. UHT-BDX / BDZ have non-melting thickener that can reach to 350~360°C. UHT-ACC / ACXC have eco-friendly organic additive. UHT-ACP / ACXP / ACZP have both anti-corrosion and high load carrying properties. UHT-BDXP has high load carrying property that can reach to 350°C. UHT-SBS / SC are special greases for segmented molds of rubber tyre manufacturing and plastic injection molds ejector pin or slide.

### Typical Properties:

UHT Oil Grade	UHT-500	UHT-750	UHT-1000	
	UHT-AC	UHT-BDX	UHT-BDZ	
	UHT-SBS	UHT-ACXP	UHT-ACZP	
	-20~250°C	-15~300°C	-5~300°C	
UHT Grease Grade	UHT-SC	UHT-ACXC		
	NLGI 1	-10~300°C		
	UHT-ACP	UHT-BDXP		
	UHT-ACC	UHT-ACX		
ISO Grade	500	720	1000	
Grease NLGI	2	1.5 / 2	1.5 / 2	
Temperature Range, °C	-25~300	-15~350	-5~360	
Base Oil Density, °C, g/ml	1.95	1.95	1.95	
Oil Pour Point, °C	-25	-15	-5	
Viscosity	@20°C, cSt	1820	2600	3500
	@40°C, cSt	510	750	1000
ASTM D445	@100°C, cSt	46.6	65	88
Base Oil Evaporation Loss, ASTM D2595, 204°C, 22hr, wt%	<0.6	<0.4	<0.3	
Base Oil Evaporation Loss, ASTM D2595, 260°C, 22hr, wt%	0.8	0.6	0.5	
Vapor Pressure	@20°C, Torr	1×10 <sup>-9</sup>	3×10 <sup>-14</sup>	4×10 <sup>-15</sup>
	@100°C, Torr	8×10 <sup>-7</sup>	1×10 <sup>-9</sup>	2×10 <sup>-10</sup>
Knudsen	@200°C, Torr	1×10 <sup>-4</sup>	2×10 <sup>-6</sup>	3×10 <sup>-7</sup>

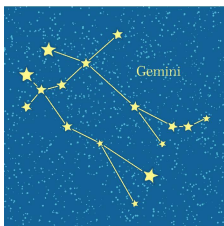
**UHT Applications:**

High temp bearing、 valve、 chain  
Conveyor bearing for paint plant、 glass、 aluminum plant  
Corrugator and paper machine bearing  
Welding machine、 aluminum can manufacturing  
High temp fan、 ventilation fan bearing  
Textile machine、 tenter frame、 calender roll bearing  
High temp oven、 brick kiln car bearing  
Chemical plant、 energy power generation  
Tyre segmented molds、 plastic injection molds ejector pin/slide  
Rod mill in mining

**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,25Kg plastic container. Not classified as dangerous in the meaning of transport regulations.



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