

# Gemini<sup>®</sup> Auto Industry PFPE Oils and Greases

## VEK Series

### Introduction:

VEK series are special designed for automotive industry, it has outstanding performance under high/low temperature, pressure, complicated liquid or gas chemical environment and other extreme conditions. VEK brings long term safety, comfort and high performance to autos. PFPE has fantastic properties like: nonflammable, chemically inert, no reactions with plastics, elastomers and metals, non electrical conductive, no biological migration and eco-friendly. It serves auto interior/exterior parts by Lubrication, Seal and NVH (noise vibration harshness) Elimination etc. Lubrication application on parts like: alternator, bearing, gear, actuator, valve, chain, console parts and CV joints etc. Sealing parts like: sensor, O-ring, weatherstrip, bushing and vent etc. NVH application parts like: leather, rubber, glass, metal, wooden decoration, hinge, switch, handle, panel, guide, lifting system, actuator mechanism and latch etc.

Besides serving automotive industry, VEK series also serve Electric Motors and Robots applications.

### Typical Properties:

Series	VEK-X18	VEK-X31	VEK-X52	
Color	white	white	white	
ISO Grade	68	100	150	
NLGI	2	2	2	
Temperature Range, °C	-51~180	-44~200	-36~204	
Base Oil Density, °C, g/ml	1.93	1.93	1.94	
Oil Pour Point, °C	-51	-44	-36	
Viscosity	@20°C, cSt	180	310	522
	@40°C, cSt	60	100	160
ASTM D445	@100°C, cSt	9	12.5	18
Base Oil Evaporation Loss, ASTM D2595, 121°C, 22hr, wt%	1	0.5	0.3	
Base Oil Evaporation Loss, ASTM D2595, 204°C, 22hr, wt%	NA	2	1.7	

**Model Table:**

Due to different formulations, in order to fit in all kinds of parts of auto, VEK series use X to diversify different models.

Type	VEK-X18	VEK-X31	VEK-X52
X=10	VEK-1018	VEK-1031	VEK-1052
X=20	VEK-2018	VEK-2031	VEK-2052
X=22	VEK-2218	VEK-2231	VEK-2252
X=2C	VEK-2C18	VEK-2C31	VEK-2C52
X=2S	VEK-2S18	VEK-2S31	VEK-2S52

**VEK Recommended Applications:**

Auto manufacturing is a high level industrial systematic work, manufacturers choose PFPE grease and oil to make sure stable, outstanding and long term quality. Auto manufacturing faces all kinds of severe conditions, PFPE perfectly meet those demands by properties like: chemically inert, no reaction with oxygen, protection from dirt and water, nonflammable, wide temperature and pressure range, high load carrying, anti-rust, anti-corrosive and eco-friendly.

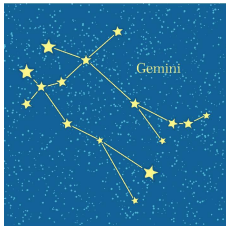
PFPE greases and oils serve auto industry in a multidimensional way, so auto industry will need our other series oils and greases besides VEK. MC series are multi purposes products, SA series are products with better quietness and superior lubricity with both anti-rust and high load carrying. UHT series use in temperature higher than 280°C. Certain auto parts will use our DF series dry film lubricant. Related auto parts heavy oil smearing cleaning will use our PFS series fluorinated fluid solvents.

Parts	Recommended Model
Fan Clutch Bearing	VEK-2218/2231/2252/2C31
Clutch Pilot Bearing	MC-2P5
Battery Vent Seals	MC-106
Exterior Rearview Mirror Plastic Gear	VEK-2018
Spark Plug Boots	VEK-2018/2031/2052
Cooling Fan Sintered Bearing	VEK-1052
Alternator Rear Bearing	VEK-2218/2231/2252/2C31
Cooling System Thermostat Actuator Rod	MC-207
O-ring Lubrication/Assembly Lube Elastomeric Seals/Miscellaneous Parts	VEK-2052
NVH Squeak Elimination Interior Parts/Window Seals	MC-103/203      VEK-1018/1052/2018/2031/2052
Hydraulic Clutch Actuator Lube Clutch Hydraulic Master/Slave Cylinder Lube	VEK-2052
Engine/Turbo Cooling System Fittings	VEK-1052
Heavy Duty Truck Automatic Clutch Bearing	SA-2P5
EGR Valve Actuator Gears	SA-2P5
Windshield Wiper Motor Bushing	MC-103
Electronic Parking Brake Mechanism Various Lube	MC-103

**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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