

# SKF Premium grease (VKG 9/xx IP)

## Solutions for the automotive industry



SKF Premium Grease

Multi-functional high temperature grease for extended lubrication under normal to heavy loads.

SKF Premium Grease is designed for high temperature applications, of upto 160°C, for normal to heavy loads. It is especially useful in the lubrication of industrial and automotive bearings operating under higher than ambient temperature conditions and under heavy loads.

### Superior performance:

Formulated using a lithium complex soap that has a high drop point, SKF Premium Grease retains its molecular composition even at higher temperatures, thereby reducing leakage and enhancing component life.

The use of SKF Premium Grease also increases the re-lubrication interval substantially as compared to conventional greases, and is therefore particularly beneficial in high temperature applications where the use of conventional greases calls for frequent re-lubrication.

### Excellent properties:

SKF Premium Grease exhibits superior lubricating properties on various parameters: excellent shear stability, good surface adhesion, non-aging, and high resistance levels to both cold and hot water, as well as heat, dust, rust, corrosion and oxidation.

Its superior load bearing capacity, low coefficient of friction, excellent anti-wear properties and better structural stability also enable considerably better performance as compared to conventional and non-soap greases for high temperature applications.

SKF Premium Grease is also more easily retained in the bearing arrangement, particularly where shafts are inclined or vertical. It therefore contributes to sealing the arrangement against contaminants, moisture or water, due to its optimum viscosity.

### Using SKF Premium Grease:

Before filling SKF VKG 9/xx IP, thoroughly clean any bearings that have earlier been lubricated by other greases, since SKF Premium Grease is not compatible with other conventional greases.

Only two thirds of the bearing needs to be filled for optimum lubrication.

Excessive amounts of grease will cause the operating temperature within the bearing to rise rapidly, particularly when running at high speeds. With SKF greases, you may fill the bearing alone with grease when

starting up, while only partly filling the free space in the housing. SKF grease therefore saves on greasing quantity too. Where bearings are to operate at very low speeds, however, and protection against contamination and corrosion is desired, fill the housing completely with SKF grease. Allow the excess grease in the bearing to settle or escape during a running-in period before operating at full speed. At the end of the running-in period, the operating temperature will drop considerably indicating that the grease has been distributed in the bearing arrangement.

When the grease fill is to be replaced, completely drain the used grease in the bearing arrangement and then fill in fresh SKF grease. Pack the fresh SKF grease between the rolling elements first. Exercise great care to ensure that contaminants are not introduced into the bearing or housing while re-lubricating.

When housings are less accessible but are provided with grease nipples and exit holes, you may renew the grease fill by re-lubricating several times at quick intervals until it can be assumed that all the old grease has been replaced by the new grease.

### The SKF Advantage:

- Higher operating temperature
- Extended re-lubrication interval
- Higher load bearing capacity

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### Specifications SKF VKG 9 IP

No	Test Description	Units	Specification SKF VKG 9 IP	Ref. Test Method
1.	Appearance	--	Smooth & buttery	Visual
2.	Soap	--	Lithium complex	--
3.	Colour	--	Dark Yellow	Visual
4.	NLGI Consistency Class	--	2/3	
5.	Operating Temperature Range	°C	-10 °C to 160 °C	
6.	Consistency of worked grease @ 25 ± 0.5 °C, 60 strokes	1/10 mm	240 – 260	ASTM D-217
7.	Drop point	°C	240 min	ASTM D-2265
8.	Four ball weld load	Kg	225 min	IP-239
9.	Copper corrosion test @ 100 °C, 24 hrs	--	Negative	ASTM D-4048
10.	Resistance to water wash at 80 °C, loss	% by wt	5 max	ASTM D-1264
11.	Heat stability, @ 100 °C, 30 hrs, loss	% by wt	5 max	IS 1448 P-89
12.	Roll stability test, Change in penetration, after 16 hrs	% Change	25 max	ASTM D-1831
13.	Roll stability test @ 50 °C, Change in penetration, after 16 hrs	% Change	--	ASTM D-1831
14.	Corrosion preventive test rating,	--	1 max	ASTM D-1743
15.	Consistency of worked grease @ 25 ± 0.5 °C, 1,00,000 strokes, diff	1/10 mm	< 25 from w/p	ASTM D-1743
16.	Leakage & deposits forming tendencies (Wheel bearing test) a) Leakage by mass b) Deposit in the wheel bearing races of the rollers	Gm --	5 max Shall be free from deposits	ASTM D-1263
17.	Oxidation stability @ 100 °C, 100 hrs, drop in pressure	Kg/cm <sup>2</sup>	0.4 max	ASTM D-942
18.	Emcor antirust test	--	0, 0	IP-220
19.	Base oil Viscosity @ 40 °C	cst	170 – 210	ASTM D-445



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