

# VKG 1

## SKF Automotive bearing grease

VKG 1 is a premium quality mineral oil based lithium complex grease with extreme pressure (EP) performance. SKF VKG 1 is extremely thermally stable within its operating temperature range and up to 220 °C (428 °F) for intermittent operation, which makes it suitable in wheel bearings of vehicles fitted with disc brakes.

### Benefits:

- Excellent lubrication at peak temperatures up to 220 °C (428 °F) for short periods
- Protection of wheel bearings operating under severe conditions
- Effective lubrication in wet conditions
- Good water and corrosion resistance
- Excellent lubrication under high loads and low speeds

### Typical applications:

- Wheel bearings in:
  - Cars
  - Trailers
  - Trucks



### Bearing operating conditions

Temperature	medium to high
Speed	low to medium
Load	high
Fast outer ring rotation	○
Oscillating movements	○
Severe vibrations	○
Shock load or frequent start-up	+
Low noise	-
Low friction	○
Rust inhibiting properties	+

+ = Recommended    ○ = Suitable    - = Not suitable

### Available pack sizes VKG 1

200 g tube	400 g cartridge	1 kg can
5 kg can	18 kg can	50 kg drum



## Technical data

<b>Designations</b>	<b>VKG 1</b>		
<b>DIN 51825 code</b>	KP2N-30	<b>Water resistance</b>	DIN 51 807/1, 3 hrs at 90 °C
<b>NLGI consistency class</b>	2		1 max.
<b>Soap type</b>	Lithium complex	<b>Oil separation</b>	DIN 51 817, 7 days at 40 °C, static, %
<b>Colour</b>	Amber		1 - 5
<b>Base oil type</b>	Mineral	<b>Lubrication ability</b>	SKF R2F, running test B
<b>Operating temperature range, °C (°F)</b>	-30 to 140 (-22 to 284)		Pass at 100 °C (212 °F)
<b>Dropping point DIN ISO 2176, °C (°F)</b>	> 250 (482)	<b>Copper corrosion</b>	DIN 51 811, 100 °C
<b>Base oil viscosity:</b>			2 max. (150 °C/300 °F)
40 °C, mm <sup>2</sup> /s	185	<b>EP performance</b>	
100 °C, mm <sup>2</sup> /s	15	Wear scar DIN 51350/5, 1 400 N, mm	1,6 max.
<b>Penetration DIN ISO 2137:</b>		4-ball test, welding load DIN 51350/4	2 600 N min.
60 strokes, 10 <sup>-1</sup> mm	265 - 295	<b>Designation</b>	VKG 1/(pack size)
100 000 strokes, 10 <sup>-1</sup> mm	+50 max. (325 max.)		
<b>Mechanical stability:</b>			
Roll stability, 50 hrs at 80 °C, 10 <sup>-1</sup> mm	+50 max. change		
SKF V2F test	'M'		
<b>Corrosion protection:</b>			
SKF Emcor			
- standard ISO 11007	0 - 0		
- water washout test	0 - 0		

\* Typical value



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