



Low noise high-speed grease

When it must be very quiet



SKF BeQuiet+ test rig.
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of SKF.

2.25
million

rpm limit
 $n \times d_m$

GN4

in the SKF
BeQuiet test*

100
 mm^2/s

base oil viscosity
at 40 °C

2

NLGI class

» Berutemp PE 2-10 HS
impresses with its unique combination
of high-speed properties and excellent
noise class despite high base oil viscosity. «

Low noise high-speed grease

Berutemp PE 2-10 HS is a new low noise high-speed lubricating grease of noise class GN4, which has already been successfully used in extremely high-speed hybrid bearings at speed characteristics of $n \times d_m = 2.25$ million. At the same time, with a base oil viscosity of 100 mm^2/s at 40 °C, it is also suitable for slower speeds, covering a uniquely wide range of operating conditions.

Due to its high load carrying capacity and very good dynamic resistance, Berutemp PE 2-10 HS can be used, for example, in rolling bearings in the drive trains of electric vehicles, in high-speed spindle bearings in machine tools and textile machines, or in low-noise rolling bearings in household appliances.

FAG WS 22 spindle bearing test (hybrid bearings)

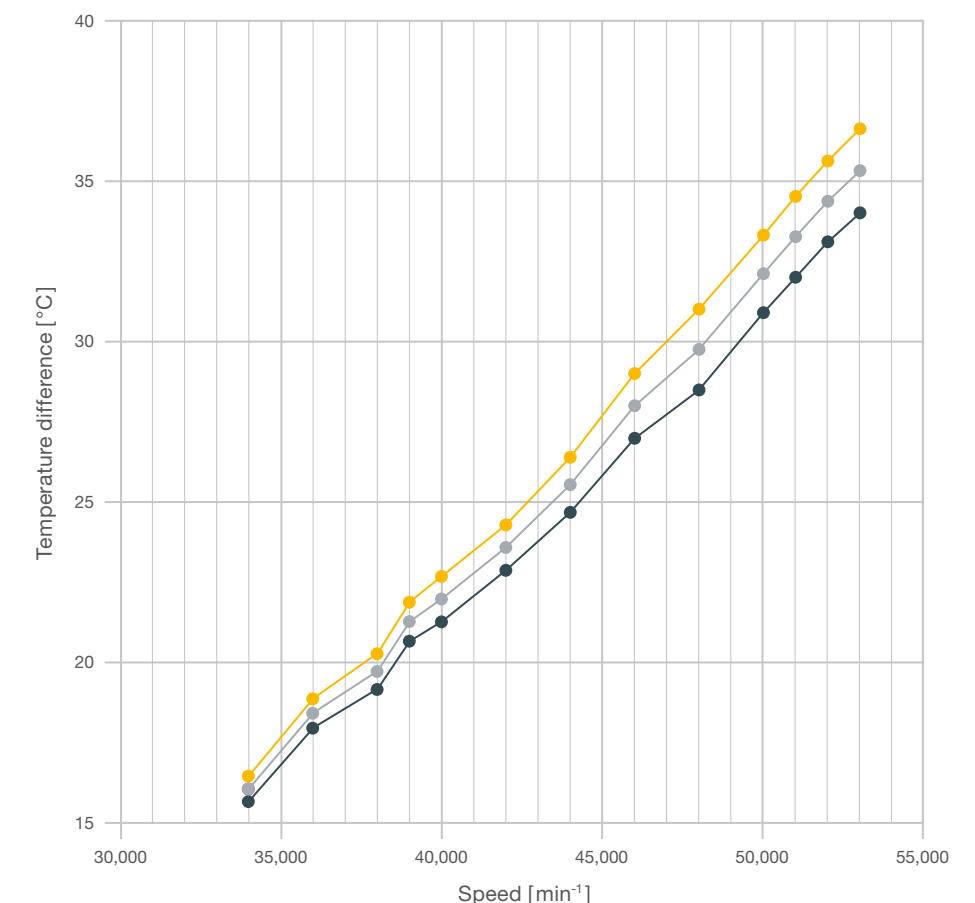
- Bearing 1
- Mean value
- Bearing 2

$n \times d_m = 2.25$ million

$53,000 \text{ min}^{-1} \times 42.5 \text{ mm} = 2,250,000 \text{ mm/min}$

Temperature difference:
Bearing temperature to room temperature

*Best possible noise class: GN4



Examples of application

- Ball bearings in electric drives of motor vehicles
- High-speed plain and roller bearings
- High-speed spindle bearings, e. g. in machine tools and textile machines
- Low-noise roller bearings in household appliances
- Toothed gears in small gears
- Worm gears

Properties

- Excellent performance in high-speed spindle bearing test rig WS 22 (speed factor in hybrid bearing: 2.25 million)
- Low noise level
- For high and low temperatures
- High load-carrying capacity
- Excellent consistency-temperature-behavior
- Well suitable for shock loads and vibrations
- Good adhesion on metallic surfaces

Lubrication solutions for industry



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