



Low noise high-speed grease



**BECHEM**  
LUBRICATION  
TECHNOLOGY

# When it must be very quiet



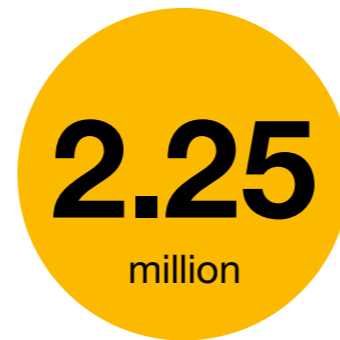
SKF BeQuiet+ test rig.  
Image with kind permission  
of SKF.

## 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



rpm limit  
 $n \times d_m$



in the SKF  
BeQuiet test\*



base oil viscosity  
at 40 °C



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<sup>2</sup>/s at 40 °C, it is also suitable for slower speeds, covering a uniquely wide range of operating conditions.

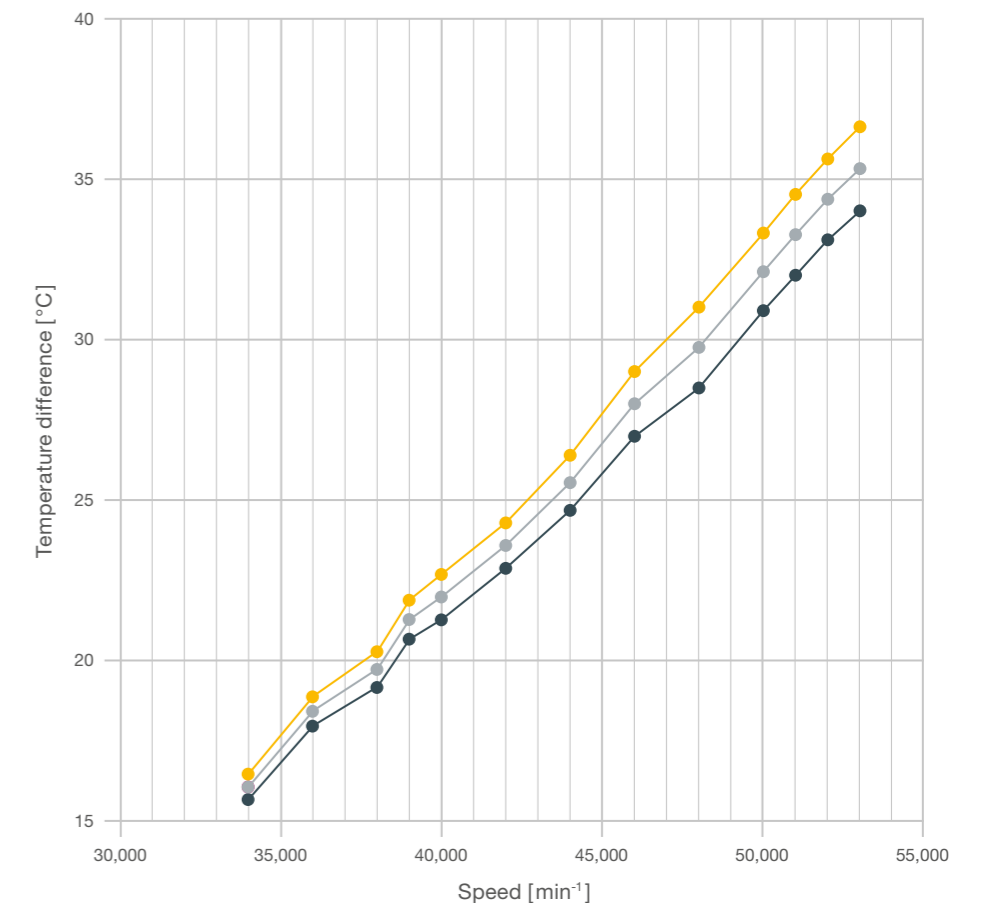
Due to its high load carrying capacity and very good dynamic resistance, Berutemp PE 2-10 HS can be used, for example, in rolling bearings in the drive trains of electric vehicles, in high-speed spindle bearings in machine tools and textile machines, or in low-noise rolling bearings in household appliances.

## FAG WS 22 spindle bearing test (hybrid bearings)

— Bearing 1  
— Mean value  
— Bearing 2

$n \times d_m = 2.25$  million  
53,000 min<sup>-1</sup> x 42.5 mm = 2,250,000 mm/min  
Temperature difference:  
Bearing temperature to room temperature

\*Best possible noise class: GN4



# Lubrication solutions for industry



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