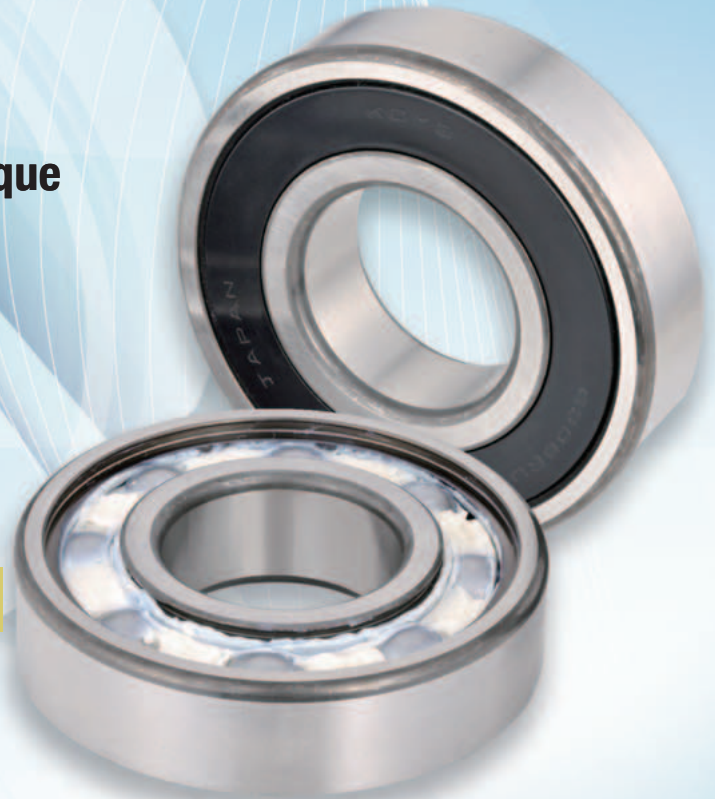
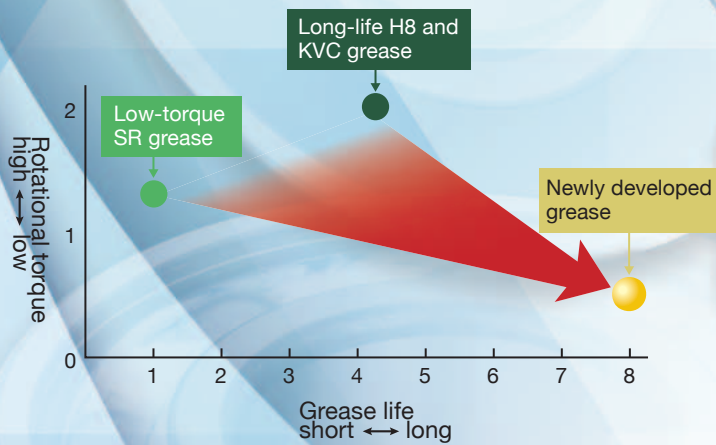


Low-torque Long-life Deep Groove Ball Bearings for Electric Motors

Optimized grease composition substantially reduces rotational torque & extends service life!!



- Combining low viscous base oil and optimized thickener substantially reduces stir resistance.
- Combining improved heat resistance and base oil retention capacity of the thickener with improved heat resistance of the base oil substantially extends bearing service life.



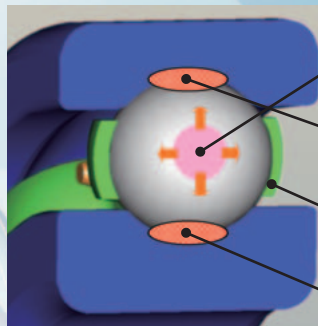
50% reduction of rotational torque from conventional products saves energy.



2 times longer service life compared to conventional bearings provides maintenance-free operation.

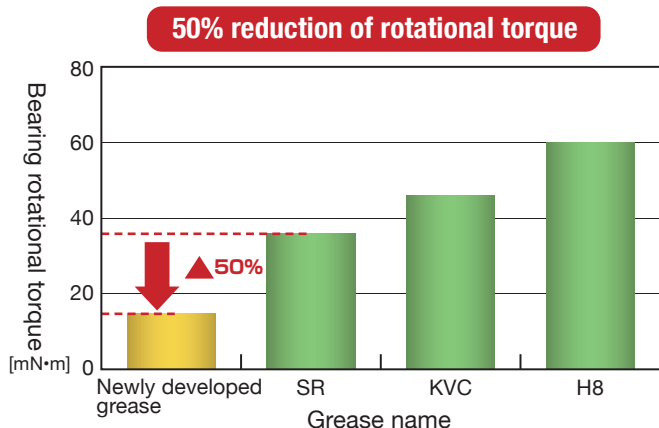
■ Grease compositions

	Newly developed grease	SR	KVC	H8
Thickener	Diurea	Lithium soap	Diurea	Diurea
Base oil	Synthetic oil	Ester oil	Synthetic oil	Synthetic oil
Base oil kinetic viscosity (40°C)	25 mm ² /s	24 mm ² /s	47 mm ² /s	47 mm ² /s
Additives	Oxidation inhibitors	Oxidation inhibitors	Oxidation inhibitors	Oxidation inhibitors



- Stir resistance**
Generated when a rolling element or cage pushes grease aside
- Rolling viscous resistance**
Generated when a ball breaks oil film over raceway
- Sliding friction resistance**
Sliding friction between balls and cage
- Rolling friction resistance**
Sliding friction between balls and raceway created by spinning balls

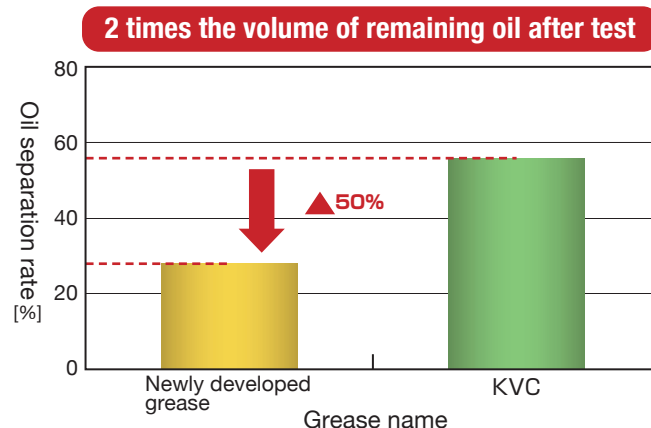
Rotational torque measurement results



Test conditions

Bearing	6302 (Non-contact seal)
Load	Fr=0 kN Fa=0.077 kN
Rotational speed	1,800 min ⁻¹
Ambient temperature	25°C (Room temperature)
Test duration	30 min

Endurance test results

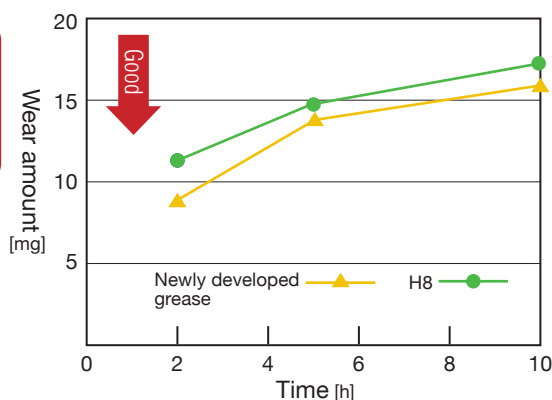


Test conditions

Bearing	6306 (Non-contact seal)
Load	Fr=0.1 kN Fa=0.17 kN
Rotational speed	1,800 min ⁻¹
Ambient temperature	140°C
Test duration	1,000 h (Suspension)

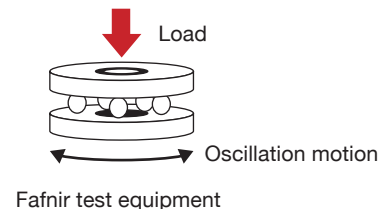
Fretting resistance

Our newly developed grease has equivalent fretting resistance to that of H8 grease.



Test conditions

Standard	ASTM D4170 compliant
Load	2.45kN
Oscillation cycle	3.4 Hz (approx. 200 cycles per minute)
Time	2 h, 5 h, 10 h
Oscillation angle	12°
Temperature	Room temperature



Applications

● Household appliances/ Industrial motors

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Information in this catalog is subject to change without notice due to continual improvements.

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