

IKO

Low Dust Generation Grease for Clean Room

CG2·CGL

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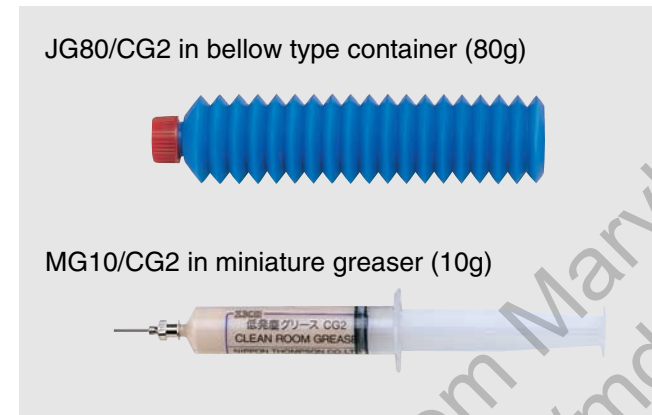
CAT-5944

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For the manufacturing process in the advanced industrial fields such as semiconductor, liquid crystal and computer peripheral units, high level of cleanness is required because even very fine dust particles suspended in the air adversely affect to the quality of the products. In these industrial fields, the environmental control technologies using the clean room are necessary and the mechanical components and level of low dust generating performance is required for the linear motion rolling guides for the equipments used in clean room. IKO Low dust generation grease has superior lubricating and rust preventing performances as well as minimal generating feature comparable to that of high vacuum grease.

CG2 Grease

IKO CG2 grease is a low dust generation grease consists of synthetic base oil and urea type thickener. This grease has superior performances for wide range of temperature, lubrication performance, rust prevention and oxidation stability.



CGL Grease

IKO CGL grease has blended soaps for thickener and synthetic oil and petrolatum with low fluid point for base oil. In addition to its superior low dust generating, feature, it provides minimal level of rolling resistance as well as high lubricating and rust preventing performance.



Features

- 1 Superior low dust generating performance suitable for clean room use.
- 2 Stable rolling resistance (CGL has low thickness.)
- 3 Wide operation temperature range (CG2 good for -40°C to 200°C *)
- 4 Superior oxidation stability (CG2)
- 5 High durability
- 6 Excellent rust prevention capability

Note *1 Continuous use near the temperature limits is not recommended.

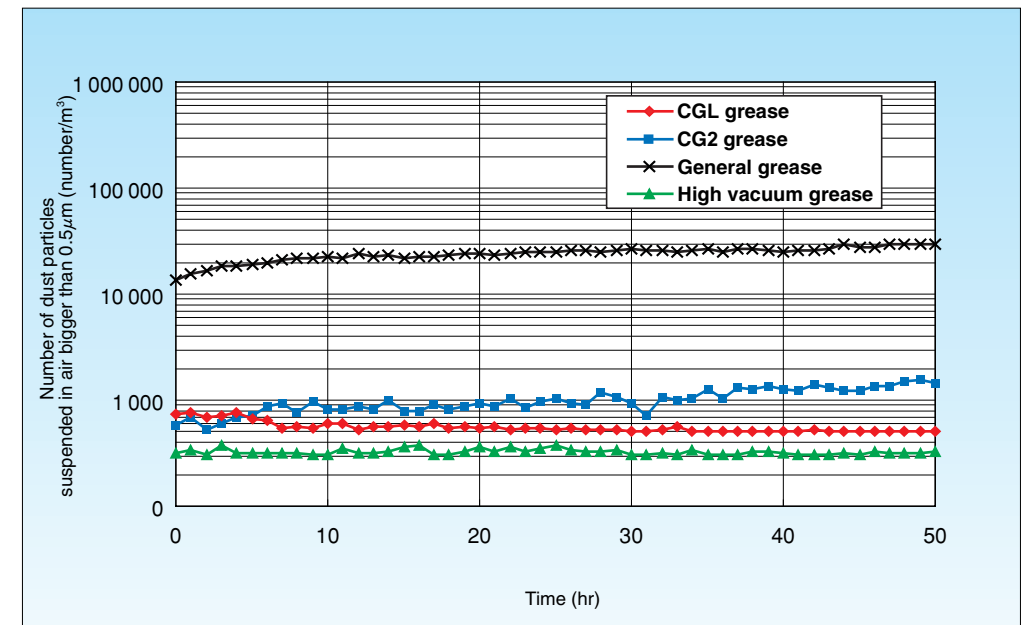
Base properties

Test item and condition	CG2	CGL	Test method
Appearance	Light brown	White	
Base oil	Synthetic oil	Synthetic oil and petrolatum	
Thicker	Urea	Lithium and calcium	
Worked penetration	280	225	JIS K 2220
Dropping point	260 <	183	JIS K 2220
Oil separation	% 100°C, 24h	0.7	JIS K 2220
Oxidation stability	kPa 99°C, 100h	35	JIS K 2220
Working stability	310	329	JIS K 2220
Corrosion prevention on bearings	52°C, 48h	Passed	ASTMD1743
Base oil kinematic viscosity	mm ² /s 40°C	36.3	JIS K 2283

Dusting Characteristics

Test condition

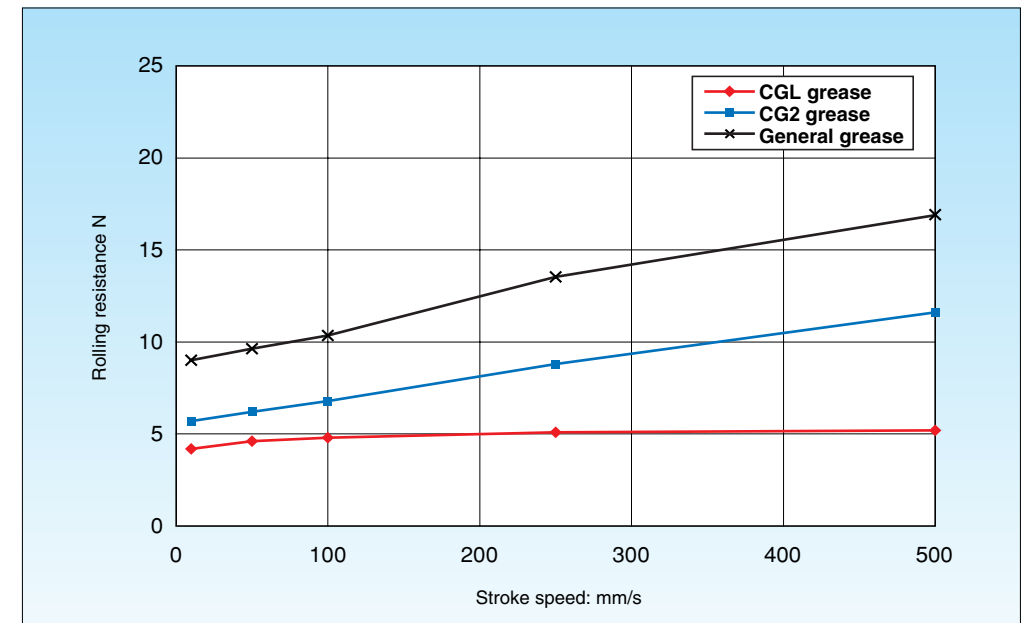
Test piece: LWL9B
Stroke speed: 1m/s
Pre-packed grease amount: 0.027cc/circulation row
Measuring equipment: Particle counter



Rolling resistance

Test condition

Test piece: LWHD30 T₁ preload
Pre-packed grease amount: 1.1cc/circulation row



Caution



- During handling grease, put on goggles or face shield for eye protection and gloves to avoid skin contact. Contact with grease may cause inflammation. (First-aid) Eyes: Rinse eyes with a plenty of water and get medical attention immediately. Ingestion: Do not induce vomiting and get medical attention immediately.
- After handling grease, wash skin with a plenty of soap water.
- Do not expose grease to high temperatures, because it is a flammable item. Flash point is 220°C. (428°F)
- Storage: Put on the cap tight. Avoid exposure to sunlight and high temperatures. And keep it in a cool and dark place.
- Disposal method: Dispose it in a manner consistent with applicable regulations.

● IKO Linear Motion Rolling Guide with pre-packed CG2 or CGL can be delivered on request. Please consult IKO.