Low particle generating KURODA C-Grease

C-Grease meets the needs for environments requiring low particle generation in equipment such as semiconductor manufacturing machines and electronic component devices.

Features

- · Particle generation greatly reduced
- Torque stabilization
- Excellent lubrication performance
- Rust prevention equivalent to that of lithium grease

Model No.

C1-080G-J (supplied in a 80 g bellows-shaped container)

C1-400G-J (supplied in a 400 g bellows-shaped container)

- * For the can (1 kg, 1.5 kg) and the syringe (50 cc), contact KURODA.
- * The color of the bellows-shaped container for KURODA C-Grease is white.

Main properties

Appearance	Yellow white
Thickener	Urea
Base oil	Synthetic oil
Consistency	280 (No.2)
Operating temperature range	−30 to +150°C

/!\ Precautions when handling

Before using C-Grease, carefully read the precautions on the "Safety Data Sheet" (SDS) of the corresponding grease type. For the "Safety Data Sheet", request to the distributor from whom you purchased the product.

Main applications	KURODA C-Grease
⚠ Caution Precautions when handling	 C-Grease is flammable (flash point: 220°C). Keep away from flame. Use protective glasses when handling. If it enters your eye, irritation may be occur. Use protective gloves when handling. If it touches your skin, irritation may be occur. Do not eat. (If you eat it, you will suffer from diarrhea and vomiting.) Keep away from children. After use, seal thoroughly to prevent intrusion of dirt or water.
Emergency measures	 If it enters your eye, wash the eye with clean water for over 15 minutes and consult a doctor. If it touches your skin, fully wash with soap and water. If swallowed, do not induce vomiting. Immediately consult a doctor.
Disposal of waste oil and waste container	◆ For disposal, take the appropriate measures according to the "Waste Management and Public Cleansing Act".
Storage	◆ Avoid direct sunlight, keep away from fire or heat and store in a dark place.

Performance data

■ Reduced particle generation

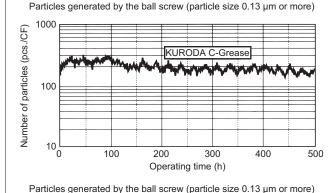


Fig. 1 Test conditions

Ball screw Shaft diameter: 20 mm

Lead: 20 mm Preload: 800 N

Rotational speed: 1200 min-1

Stroke: 250 mm Amount of grease: 1 cc Measurement interval: 1 h

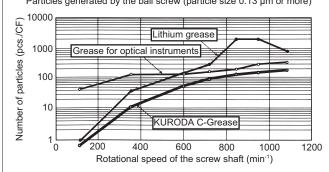


Fig. 2 Test conditions Ball screw

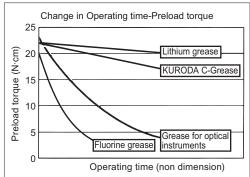
Shaft diameter: 20 mm

Lead: 20 mm Preload: 800 N Stroke: 250 mm

Amount of grease: 1 cc Measurement interval: 1 h These values are mean values

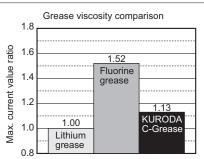
taken after 100 measurements of each rotational speed. The operating time of the ball screw during those measurements is about 240 hours.

■ Torque



Test conditions are the same as those in Fig. 2. The less preload torque, the better the lubrication performance.

■ Lubrication



The above bars indicate the maximum current value ratio at 500 mm/s (1500 min-1) for a single-axis robot. The current value of the drive motor is proportional to the

load torque. Therefore, the larger the current value is, the larger the grease resistance becomes (smoothness is reduced).

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