

Low Dust Generation Grease for Clean Room

CG2·CGL

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NIPPON THOMPSON CO., LTD.

Nippon Thompson Co., Ltd.

● ASEAN REPRESENTATIVE OFFICE

586 Luang Road, Pomprab

Pomprab Satrupai, Bangkok

Phone: +66 (0)-2623-3699

● CHINA REPRESENTATIVE OFFICE

Phone: +86 (0)21-6248-1120

Fax: +86 (0)21-6249-6835

People's Republic of China

Shanghai Apollo Business Center 619

1440 Yan An C. Road, Shanghai 200040

Fax: +66 (0)-2623-0716

E-mail: iko@anet.net.th

Thailand 10100

Head office :19-19 Takanawa 2-chome Minato-ku, Tokyo 108-8586, Japan Phone :+81 (0)3-3448-5850 Fax :+81 (0)3-3447-7637 E-mail :ntt@ikonet.co.jp URL :http://www.ikont.co.jp/eg/ Plant :Gifu, Kamakura

IKO International, Inc.

• 91 Walsh Drive Parsippany, NJ 07054 U.S.A. Phone: +1 973-402-0254 Toll Free: 1-800-922-0337 Fax: +1 973-402-0441 E-mail:eco@ikonet.co.jp

- 500 East Thorndale Avenue Wood Dale, IL 60191 U.S.A. Phone: +1 630-766-6464 Toll Free: 1-800-323-6694 Fax: +1 630-766-6869 E-mail:mwo@ikonet.co.jp
- 20170 South Western Avenue Torrance, CA 90501 U.S.A. Phone: +1 310-609-3988 Toll Free: 1-800-252-3665 Fax: +1 310-609-3916 E-mail:wco@ikonet.co.jp
- Duluth, GA 30096 U.S.A. Phone: +1 770-418-1904 Toll Free: 1-800-874-6445 Fax: +1 770-418-9403 E-mail:seo@ikonet.co.jp
- 8105 N. Beltline Road Suite 130, Irving, TX 75063 U.S.A. Phone: +1 972-929-1515 Toll Free: 1-800-295-7886 Fax: +1 972-915-0060 E-mail:swo@ikonet.co.jp

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• 2150 Boggs Road, Suite 100

Nippon Thompson Europe B.V.

- Sheffieldstraat 35-39 3047 AN Rotterdam The Netherlands Phone: +31 (0)10-4626868 Fax: +31 (0)10-4626099 E-mail:nte@ikonet.co.jp
- Mündelheimer Weg 56 40472 Düsseldorf Germany Phone: +49 (0)211-414061 Fax: +49 (0)211-427693 E-mail:ntd@ikonet.co.jp

Donaustaufer Str. 200 93059 Regensburg Germany Phone: +49 (0)941-447737 Fax: +49 (0)941-447747

Gruben Str.95c 66540 Neunkirchen Germany Phone: +49 (0)6821-742535 Fax: +49 (0)6821-742536

- 2 Vincent Avenue, Crownhill Milton Keynes Bucks MK8 OAB United Kingdom Phone: +44 (0)1908-566144 Fax: +44 (0)1908-565458 E-mail:sales@iko.co.uk
- Autovia Madrid-Barcelona, Km. 43,700 Polig. Ind. AIDA, A-8, Ofic. 2, 1ª 19200-Azuqueca de Henares Guadalajara, Spain Phone: +34 949-263390 Fax: +34 949-263113 E-mail:nts@ikonet.co.jp
- Roissypole Le Dôme 2 rue de La Haye BP 10950 Tremblay en France 95733 Roissy C. D. G. Cedex France Phone: +33 (0)1-48165739 Fax: +33 (0)1-48165746 E-mail:ntf@ikonet.co.jp

IKO Low Dust Generation Grease for Clean Room

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. IXI Low dust generation grease has superior lubricating and rust preventing performances as well as minimal generating feature comparable to that of high vacuum grease.



•Features =

- **EVALUATE:** Superior low dust generating performance suitable for clean room use.
- **2** Stable rolling resistance (CGL has low thickness.)
- **Wide operation temperature range (CG2 good for -40°**C to 200°C^{**1})
- **EVALUATE:** Superior oxidation stability (CG2)
- 5 High durability
- *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 | 1.2 | 0.7 | JIS K 2220 |
| Oxidation stability kPa 99°C, 100h | 10 | 35 | JIS K 2220 |
| Working stability | 310 | 329 | JIS K 2220 |
| Corrosion prevention on bearings 52°C, 48h | Passed | Passed | ASTMD1743 |
| Base oil kinematic viscosity mm²/s 40°C | 103 | 36.3 | JIS K 2283 |

•Dusting Characteristics



Rolling resistance

Test condition Test piece:

LWHD30 T1 preload

Pre-packed grease amount: 1.1cc/circulation row



Caution



- After handling grease, wash skin with a plenty of soap water.
- dark place.
- Disposal method: Dispose it in a manner consistent with applicable regulations.

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

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• 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.

• 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