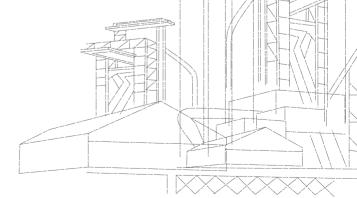




ZetaLube 203 Hi Speed Grease

Description

ZetaLube 203 is formulated with low viscosity synthetic base fluid (thickened by complex soap) and package of additives including anti-wear, anti-oxidants and corrosion inhibitors. With such specially designed formulation, this new grease is an exceptionally efficient lubricant for bearing parts exposed to extremely high speed.



MAGNA INDUSTRIAL CO. LIMITED

Total Quality Maintenance





Features and Benefits

- DmN factor > 1 million → DmN = rpm x ((bearing bore + outside diameter) / 2).
- Good anti-wear performance and oxidative stability.
- Excellent resistance to water washout.
- Long service life of lubrication at high speed.
- Eliminates the needs for an external oil lubrication system (e.g. oil-mist system).
- Wide Temperature Range: -40°C to 120°C.

Recommended Applications

- For lubricating spindle and tapered roller bearings, ball screws subjected to high speed & high pressure.
- For lubrication of spinning turbine used in the textile industry.
- For tooth flanks of precision gears and bevel gears in milling machines.
- For fine instruments and control mechanisms in industrial, marine, aviation and automotive applications.

Typical Data

Colour	Brown
Texture	Smooth
NLGI No.	No. 2
Service temperature Range	-40°C (-40°F) to 120°C (248°F)
Water Washout Test (ASTM D1264)	2%
DmN Factor	1,000,000

The data shown are typical value and may vary.

Pack-size

1 kg Jar

Authorized Distributor

Alshawi Trading,

Block 351, Road 51, Bldg 20, Manama - Bahrain. www.alshawitrading.com info@alshawitrading.com P. O. Box: 33526

Tel: (973) 1755 0019 Fax: (973) 1755 5108

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

ZETALUBE DIVISION
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32 OI KWAN ROAD, WANCHAI,
HONG KONG

TEL: (852) 2577 5187 FAX: (852) 2577 3190

IDENTITY (As Used on Label and List)	LAST	ASSESSED:	29	May	2007
ZETALUBE 203					

SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s))	CAS NO.	ACGIH TLV	Other Limits Recommended
Polyalphaolefin	68037-01-4	5mg/m³*	_
Diester	N.A.	N.A.	-
SECTION II - PHYSICAL CHARACTERISTICS			

Boiling Point	N.A.	Specific Gravity $(H_20 = 1)$	~0.9
Vapor Pressure (N.A.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (Ether = 1)	N.A.

Solubility in Water < 0.1 q/l

Appearance and Odor Beige paste with negligible odour

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
>150°C	N.A.	_	_

Extinguishing Media

Dry chemical, water fog, carbon dioxide, foam, and sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

None expected. Autoignition temperature is in excess of 450°C.

SECTION IV - REACTIVITY DATA

Stability	Conditions to Avoid
Stable	Heat

Incompatibility (Materials to Avoid)

Strong oxidizing agents. Strong reducing agents.

Hazardous Decomposition or Products

Oxides of carbon

Hazardous Polymerization	Condition to Avoid
Will Not Occur	None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

See section I hazardous ingredients

Effects of Overexposure

There is no lethal dose information available.

Inhalation: Inhalation of vapours can cause irritation of the respiratory tract. High concentrations of oils, mists or vapours can cause chemical pneumonitis.

Skin: May cause irritation, drying and cracking.

Eyes: Cause irritation.

Ingestion: May cause irritation in mouth and stomach, thirst, nausea, vomiting, diarrhoea, with possible collapse if large amounts ingested. Aspiration of material upon vomiting may cause chemical pneumonitis.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately.

Skin contact: Wash thoroughly with soap and water.

Inhalation: N.A.

If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, and vermiculite. Sweep up and dispose of as solid waste comply with all local and national regulations.

Waste Disposal Method

By methods consistent with local and national regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.

Protective Gloves Eye Protection

Rubber or plastic oil resistant gloves.

Safety goggles and full-face shield when handled hot.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A

Remarks

* The ACGIH TLV for mineral oil mists is $5mg/m^3$ for a daily 8-hour exposure.

Transportation: Not classified.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility or any loss, damage, or expense, direct or consequential, arising out of their use.