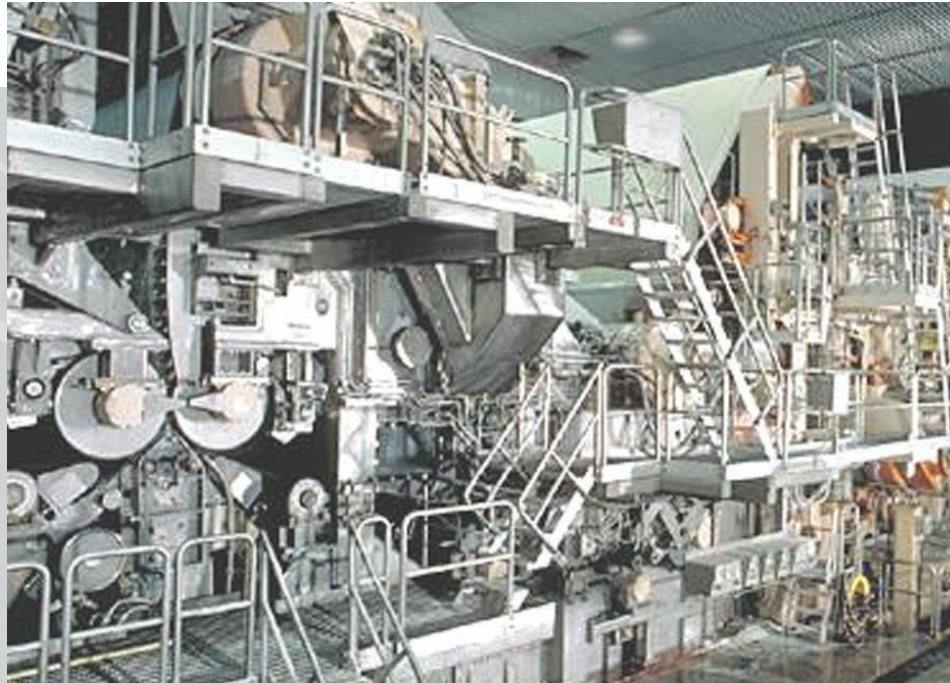




**ZetaLube**

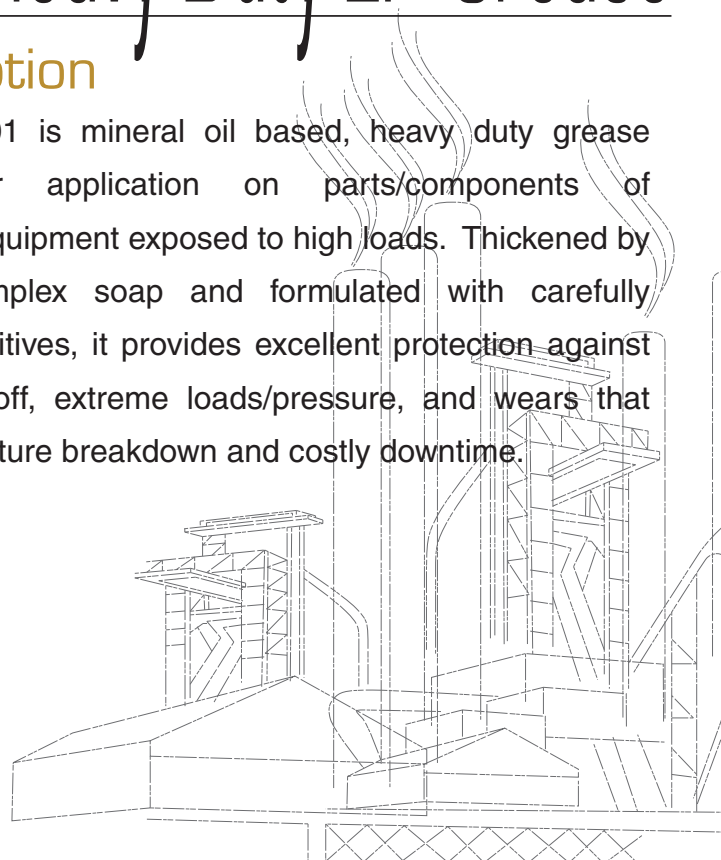
A New Lubricity Dimension  
Evolved From Experience



# ZetaLube. 201 Heavy Duty EP Grease

## Description

ZetaLube 201 is mineral oil based, heavy duty grease suitable for application on parts/components of machinery/equipment exposed to high loads. Thickened by Lithium Complex soap and formulated with carefully selected additives, it provides excellent protection against water wash-off, extreme loads/pressure, and wears that cause premature breakdown and costly downtime.



**MAGNA INDUSTRIAL CO. LIMITED**  
*Total Quality Maintenance*

[www.magnagroup.com](http://www.magnagroup.com)

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## Features and Benefits

- Excellent load-carrying capacity provided by viscous base fluid and special EP additive to protect machinery/equipment against high loads, high pressure and shock loads.
- Strong resistance to corrosion and oxidation.
- Outstanding protection against water wash-off – extra protection to machinery/equipment against rust and corrosion caused by moisture.
- Unparalleled film strength and stiffness needed to protect parts against heavy loading and severe impact.
- High level of chemical and thermal resistance for machinery/equipment exposed to harsh operating conditions in heavy industries such as steel and paper & pulp mills.
- Versatile heavy duty applications for maintenance professionals to reduce inventory level.
- Extends service life of machinery/equipment and reduces maintenance costs.

## Recommended Applications

- Lubrication of heavy-duty industrial machineries and equipment.
- Lubrication of bearing parts exposed to high temperature and extra-load conditions in water-intensive operating industrial processes, e.g. steel mills, paper / pulp / board mills.
- Commercial automotive bearing parts exposed to frequent water washout and marine equipment.

## Typical Data

TEST	ASTM TEST METHOD	TEST RESULT
Color	--	Green
NLGI Grade	--	#2
Worked Penetration @ 25°C	D-217	265-290
Mineral Base Oil:		
Viscosity, cSt @ 40°C	D-445	455
Viscosity, cSt @ 100°C	D-445	30
Viscosity Index	D-2270	110
Flash Point, °C	D-92	254
Pour Point, °C	D-97	-10
Dropping Point, °C	D-2265	260
Timken, OK Load, kg	D-2509	23
4-Ball EP Performance:		
Weld Load, kgf	D-2596	320
Water Washout Characteristics:		
Grease Washout, %	D-1264	4.5
Oil Separation, %	D-1742	2
Oxidation Resistance:		
Pressure Drop, 100 Hours, kpa	D-942	25
Texture	--	Smooth & Tacky
Operating Temperature Range, °C	--	-7 to +190

The data shown are typical value and may vary.

## Pack-size

15 Kg Pail

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.

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32 OI KWAN ROAD, WANCHAI,  
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<b>IDENTITY (As Used on Label and List)</b> <b>ZETALUBE 201</b>	<b>LAST ASSESSED:</b> 29 May 2007
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**SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<i>Hazardous Components (Specific Chemical Identity: Common Name(s))</i>	<i>CAS NO.</i>	<i>ACGIH TLV</i>	<i>Other Limits Recommended</i>
Highly refined mineral oil**	64742-65-0	5.0mg/m <sup>3</sup> *	-
Highly refined mineral oil**	64741-62-7	5.0mg/m <sup>3</sup> *	-

**SECTION II - PHYSICAL CHARACTERISTICS**

<i>Boiling Point</i>	N.A.	<i>Specific Gravity (H<sub>2</sub>O = 1)</i>	~0.90
<i>Vapor Pressure (N.A.)</i>	N.A.	<i>Melting Point</i>	>250°C
<i>Vapor Density (AIR = 1)</i>	N.A.	<i>Evaporation Rate (Ether = 1)</i>	N.A.

*Solubility in Water* < 0.1 g/l

*Appearance and Odor* Tacky green grease with negligible odor.

**SECTION III - FIRE AND EXPLOSION HAZARD DATA**

<i>Flash Point (Method Used)</i>	<i>Flammable Limits</i>	<i>LEL</i>	<i>UEL</i>
>240°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**

<i>Stability</i>	<i>Conditions to Avoid</i>
Stable	None

***Incompatibility (Materials to Avoid)***

Strong oxidizing agents

***Hazardous Decomposition or Products***

Oxides of carbon

<i>Hazardous Polymerization</i>	<i>Condition to Avoid</i>
Will Not Occur	None

**SECTION V - HEALTH HAZARD DATA**

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**Threshold Limit Value**

See section I hazardous ingredients

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**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.

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**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.

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**SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE**

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**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.

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**Waste Disposal Method**

By methods consistent with local and national regulations.

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**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.

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**Other Precautions**

Keep out of the reach of children.

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**SECTION VII - CONTROL MEASURES**

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**Respiratory Protection (Specify Type)**

None required

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<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Special</b>
	N.A.	N.A.
	<b>Mechanical (General)</b>	<b>Other</b>
	N.A.	N.A.

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**Protective Gloves**

Rubber or plastic oil resistant gloves.

**Eye Protection**

Safety goggles and full-face shield when handled hot.

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**Other Protective Clothing or Equipment**

None required

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**Work/Hygienic Practices**

N.A.

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**Remarks**

\* The ACGIH TLV for mineral oil mists is 5mg/m<sup>3</sup> for a daily 8-hour exposure.  
\*\* Contains less than 3% DMSO extract as measured by IP346.

Transportation: Not classified.

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