



**ZetaLube**

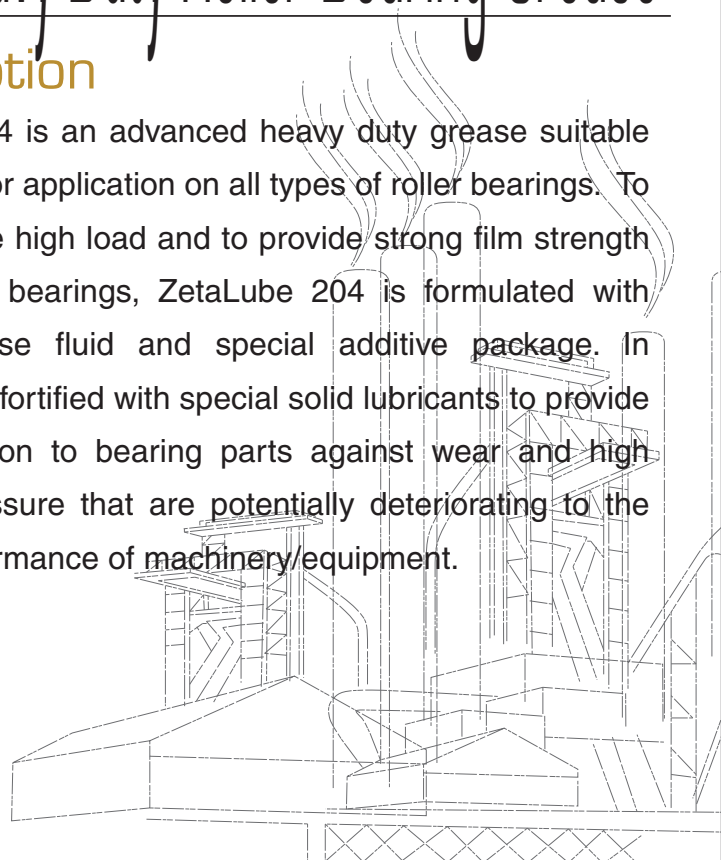
A New Lubricity Dimension  
Evolved From Experience



# ZetaLube. 204 Heavy Duty Roller Bearing Grease

## Description

ZetaLube 204 is an advanced heavy duty grease suitable particularly for application on all types of roller bearings. To cope with the high load and to provide strong film strength to the roller bearings, ZetaLube 204 is formulated with synthetic base fluid and special additive package. In addition, it is fortified with special solid lubricants to provide extra-protection to bearing parts against wear and high loads & pressure that are potentially deteriorating to the normal performance of machinery/equipment.



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

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## Features and Benefits

- Excellent load-carrying capacity provided by synthetic base fluid and EP additive to protect machinery/equipment against high loads, high pressure and shock loads.
- Outstanding resistance to corrosion and oxidation.
- Good protection against water wash-off.
- Exceptional film strength and stiffness needed to protect parts against heavy loading and severe impact.
- High level of thermal and shear stabilities.
- Maintains adequate lubricity at high temperatures.
- Prevents excessive bearing bleeding and extends service life of bearing parts.

## Recommended Applications

- For roller bearings including taper roller bearings and roller thrust bearings of heavy-duty industrial machineries and equipment exposed to medium to high speeds.
- For rotating contacts subjected to sliding movement under heavy loads.
- Can also be used for lubrication of ring frames in the textile industry.

## Typical Data

	<b>ASTM TEST METHOD</b>	<b>TEST RESULT</b>
Appearance	Visual	Smooth & Tacky
NLGI Grade	--	#2
Worked Penetration @ 25°C	D-217	265-295
Base Fluid:		
Viscosity, cSt @ 40°C	D-445	165
Viscosity, cSt @ 100°C	D-445	19
Timken, OK Load, kg	D-2509	36
4-Ball EP Performance:		
Weld Load, kg	D-2596	500
Operating Temperature Range, °C	--	-40 to +210

The data shown are typical value and may vary.

## Pack-size

15 Kg Pail & 1 Kg Jar

### Authorized Distributor

**Alshawi Trading,**  
Block 351, Road 51, Bldg 20, Manama - Bahrain.  
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**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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<b>IDENTITY (As Used on Label and List)</b> <b>ZETALUBE 204</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	5mg/m <sup>3</sup> *	-
Polyalphaolefin	68037-01-4	5mg/m <sup>3</sup> *	-
Polytetrafluoroethylene, PTFE	9002-84-0	-	***

**SECTION II - PHYSICAL CHARACTERISTICS**

<i>Boiling Point</i>	N.A.	<i>Specific Gravity (H<sub>2</sub>O = 1)</i>	~0.9
<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* Light yellow paste 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. Decomposition is initiated above 300°C.

**SECTION IV - REACTIVITY DATA**

<i>Stability</i>	<i>Conditions to Avoid</i>
Stable	Pyrolysis

***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

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**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. Inhalation of vapors from material at high temperature (over 250°C) must be avoided.

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. Avoid contamination of cigarettes or other tobacco 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 unless mists, smokes or vapors are produced at high temperatures.

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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.
<b>Protective Gloves</b>	<b>Eye Protection</b>	
Rubber or plastic oil resistant gloves.	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.

\*\*\* Not a hazardous material under normal usage, but PTFE can produce toxic fumes if pyrolyzed. Decomposition is initiated above 300°C, when thermally decomposed, may cause polymer fume fever and flu-like symptoms.

Transportation: Not classified.

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