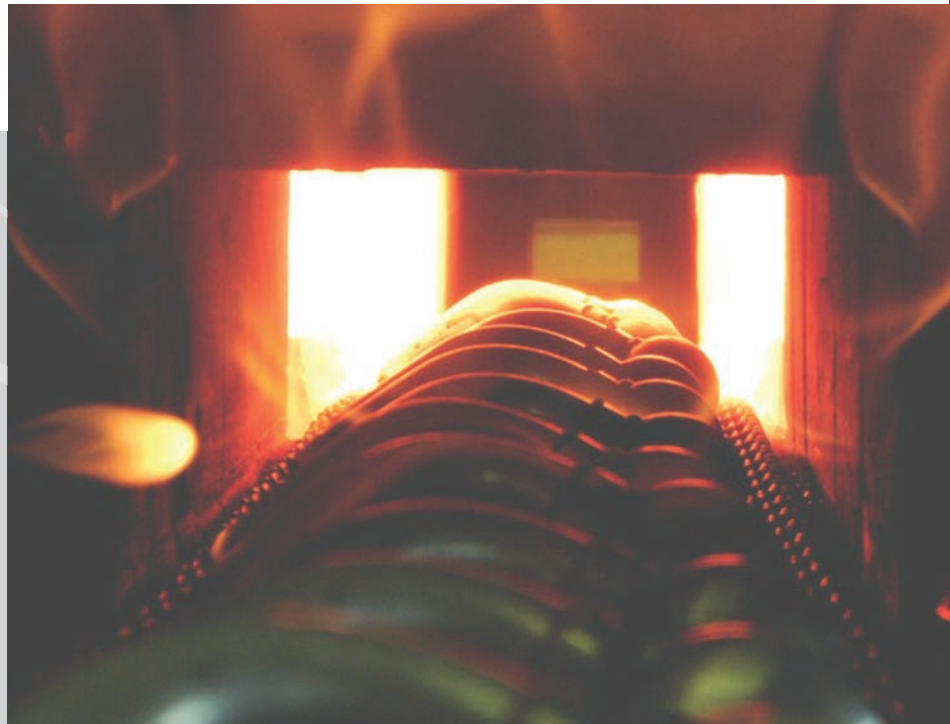




ZetaLube

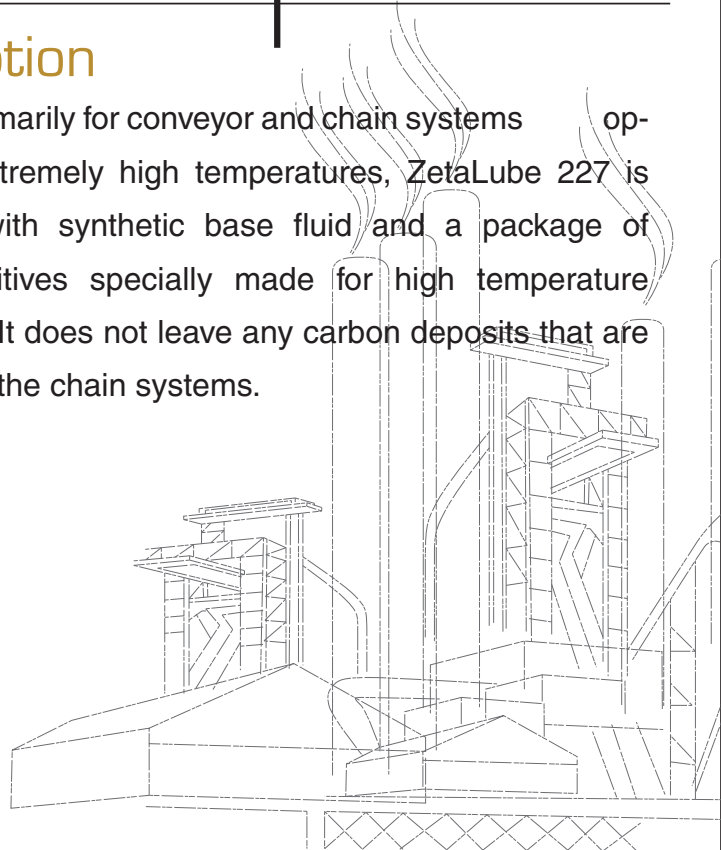
A New Lubricity Dimension
Evolved From Experience



ZetaLube 227 Hi Temp Chain Oil

Description

Designed primarily for conveyor and chain systems operating at extremely high temperatures, ZetaLube 227 is formulated with synthetic base fluid and a package of modern additives specially made for high temperature applications. It does not leave any carbon deposits that are damaging to the chain systems.



MAGNA INDUSTRIAL CO. LIMITED
Total Quality Maintenance

www.magnagroup.com

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Features and Benefits

- Exceptional high temperature stability & resistance.
- Outstanding oxidation resistance to prevent carbon residue and varnish from depositing in the chain system.
- Extremely low evaporation – long re-lubrication cycle.
- Very low volatility – safer to use, less oil consumption.
- Energy efficient – low coefficient of friction.
- Keeps chains clean and minimizes carbon / hard lacquer build-up and extends cleaning intervals – avoid costly wears and breakdowns.
- Contains no silicone and avoids contaminating components.
- Excellent anti-corrosion, anti-wear, and anti-foam properties – increases service life of chain system and decreases maintenance and replacement costs of chains.

Recommended Applications

- For lubrication of all chain systems, gears, and slides constantly exposed to extremely high temperatures and high loads.
- For chain systems of machinery/equipment operating at high temperatures - such as stenter and dryer for the processing department of textile industry and conveyor ovens for heavy industries.

Typical Data

TEST	ASTM TEST METHOD	ISO VG 150	ISO VG 220
Appearance	Visual	Amber	Amber
Density, kg/L @ 15.6°C	D-4052	0.962 – 0.972	0.962 – 0.972
Viscosity, cSt @ 40°C	D-445	150	212
Viscosity Index	D-2270	72	72
Flash Point, C.O.C., °C	D-92	282 min.	282 min.
Pour Point, °C	D-97	-27	-30
Total Acid Number, mgKOH/g	D-664	0.2	0.2
Rust Test, 48 Hours			
Distilled Water	D-665A	Pass	Pass
Sea Water	D-665B	Pass	Pass

The data shown are typical value and may vary.

Pack-size

205 Litre Metal Drum & 20 Litre Plastic Container

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.

ZETALBE DIVISION
MAGNA INDUSTRIAL CO. LIMITED
18/F., GUARDIAN HOUSE,
32 OI KWAN ROAD, WANCHAI,
HONG KONG

TEL: (852) 2577 5187

FAX: (852) 2577 3190

IDENTITY (As Used on Label and List) ZETALBE 227	LAST ASSESSED: 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>
Pentaerythritol ester of heptanoic, caprylic, capric and isononanoic acids	118685-22-6	Not established	-
Dipentaerythritol ester of heptanoic, caprylic, capric and isononanoic acids	118685-24-8	Not established	-

SECTION II - PHYSICAL CHARACTERISTICS

<i>Boiling Point</i>	N.A.	<i>Specific Gravity (H₂O = 1)</i>	~0.96
<i>Vapor Pressure (@25°C, mmHg)</i>	N.A.	<i>Melting Point</i>	N.A.
<i>Vapor Density (AIR = 1)</i>	N.A.	<i>Evaporation Rate (Ether = 1)</i>	N.A.

Solubility in Water Negligible

Appearance and Odor Clear oily liquid 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>
>304°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.

SECTION IV - REACTIVITY DATA

<i>Stability</i>	<i>Conditions to Avoid</i>
Stable	Heat temperature

Incompatibility (Materials to Avoid)

Strong acids and strong bases

Hazardous Decomposition or Products

Oxides of carbon

Hazardous Polymerization Will Not Occur	Condition to Avoid None
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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

Rubber or plastic oil resistant gloves.

Eye Protection

Safety goggles and full-face shield when handled hot.

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

Transportation: Not classified.

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