

Omega 35

DESCRIPTION:

Omega 35 is a highly-specialized High Temperature Stable grease that has been engineered to continue lubricating applied parts at temperatures where ordinary greases "carbonize" and form abrasives that damage equipment. It consists of a synthetic, non-ash base or "carrier" agent, into which a high concentration of super-micronized, infinitesimal fine-mesh, lubricant-grade Megalite Solid Lubricant (MSL) is suspended.

OPERATING PRINCIPLE:

Omega 35 features a highly unique lubricating principle. Its finely-balanced proportion of synthetic carrier and micronized MSL gives it good penetration power, good "spreadability" and enhanced lubricating qualities.

The synthetic is designed merely to be the "carrier" of the solid lubricant, to enable the latter to be introduced into the part(s) to be lubricated. Once the operating temperature increases to the volatilization range of the synthetic "carrier", it flashes off and leaves the super-fine, Megalite Solid Lubricant (MSL) in place. The MSL remains and continues to provide unparalleled anti-friction lubrication performance to the applied parts.

IN-BUILT SUPERIORITY:

Omega 35's MSL provides many advantages over ordinary high temperature solid lubricants, such as molybdenum disulphide (commonly called "moly"). Moly does have high temperature qualities in the region of 700°C, but at such temperatures oxidize to form hard, abrasive residues that can damage equipment.

PERFECT FOR "SEARING TEMPERATURE" APPLICATIONS:

Omega 35 is engineered as a general-purpose grease for virtually every type of application where exceptionally high heat is unavoidable. Some examples, include:

OVEN CARS

BRICK KILN CARS

STEEL MILLS

BAKING & COOKING OVENS

FOUNDRIES...and all slow-moving, high temperature applications.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Base Fluid: -		
Viscosity @ 40°C (104°F)cSt	D-445	35
Viscosity @ 100°C (212°F)cSt	D-445	6
Viscosity Index	D-2270	116
Pour Point, °C (°F)	D-97	-8 to -15 (17.6 to 4)
Flash Point, °C (°F)	D-92	196(385)
4-ball EP weld point, kgf	D-2596	620
4-ball wear scar, mm	D-2266	0.8
Worked Penetration @ 77°F, 150gm cone	D-217	270-310
Specific Gravity @ 15°C (60°F)	D-1298	1.33
Dropping Point °C (°F)	D-566	260(500)+
Texture		Smooth
Colour		Gray/Black
"Megalite" Solid Lubricant content		38-42%

IMPORTANT:

1. Product should be thoroughly mixed with a paddle to ensure uniform consistency before applying to bearings and other parts to be lubricated.
2. The lubricated parts should be cleaned to remove the previous lubricant completely prior to applying Omega 35.
3. Avoid over-greasing with Omega 35. Otherwise, too much solid lubricant will hinder the free rotation of the bearing. For roller bearings, apply grease to fill about 25% of the housing capacity only. During regular maintenance period, dismantle bearings for cleaning and regreasing.

MAGNA INDUSTRIAL CO. LIMITED

Total Quality Maintenance

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MATERIAL SAFETY DATA SHEET

DATE 01 Aug 2014

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name/Code Omega 35

Company Identification

Omega Manufacturing Division,
Magna Industrial Co. Limited,
1801, Guardian House,
32 Oi Kwan Road,
Wanchai, Hong Kong.

Distributor

Alshawi Trading,
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SECTION 2 - HAZARDS IDENTIFICATION

Not classified as hazardous.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS Number</u>	<u>Wt.%</u>	<u>Classification</u>
Graphite	7782-42-5	30-60	-
Polyethylene glycol	25322-68-3	30-60	-

SECTION 4 - FIRST-AID MEASURES

Eye Contact: Flush with plenty of water for at least 15 minutes. Seek immediate medical attention.

Skin Contact: Wash thoroughly with soap and water. Obtain medical attention in case of skin irritation or other cause for concern.

Inhalation: Move patient to open air.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

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SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Dry chemical, waterfog, foam, sand and carbon dioxide.

Special Protective Equipment for Fire Fighters: Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Dense smoke. Carbon dioxide, carbon monoxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage: Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, vermiculite. Sweep up and dispose of in accordance with local and national regulations.

SECTION 7 - HANDLING AND STORAGE

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

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH TLV

Graphite 2 mg/m³

Eye Protection: Safety goggles and full-face shield

Hand Protection: Rubber or plastic oil resistant gloves.

Ventilation: Use under well ventilated conditions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark grey semi-solid grease

Odour: No special odor

pH: N.A.

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Specific Gravity: 1.34
Vapour Pressure: N.A.
Boiling Point: N.A.
Melting Point: N.A.
Flash Point: above 232°C
Flammability: N.A.
Evaporation Rate: N.A.
Solubility in Water: Insoluble

SECTION 10 - STABILITY AND REACTIVITY

Stable under normal condition.

Materials to Avoid: Strong oxidizing agents, hydrogen peroxide, chromic acid, bromine.

Toxic compounds may form on thermal decomposition. Hazardous combustion products: carbon monoxide, carbon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

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.

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available at present.

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SECTION 13 - DISPOSAL CONSIDERATIONS

Comply with all local and national regulations regarding disposal.

SECTION 14 - TRANSPORT INFORMATION

UN Number : Not regulated

IATA Class : Not regulated, Packing Group: Not regulated

IMDG Class : Not regulated, Packing Group: Not regulated

Not considered hazardous for transport purpose.

SECTION 15 - REGULATORY INFORMATION

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SECTION 16 - OTHER INFORMATION

R-phrases: -

S-phrases: -

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