

Omega 612

UNIVERSAL LUBRICATION & HYDRAULIC OIL

VISCOSITY STANDARD:

Omega 612 Universal Lubrication & Hydraulic Oil has a highly stable viscosity standard. It remains constant throughout temperature fluctuations and retains its texture regardless of varied conditions.

ANTI-WEAR:

Omega 612 has a number of easily recognizable advantages over ordinary 'oil-can' oils used in the workshop. One such advantage is its special ability to resist wear. It contains special built-in wear inhibitors that actually surface-alloy the frictional area and prevent direct interfacial contact!

FOAM-INHIBITED:

Ordinary oils tend to aerate, causing an influx of oxygen into the equipment. Oxygen is the carrier of corrosive oxidation and oxidation causes equipment deterioration and, eventually, costly breakdown!

ANTI-MAGNETIC:

Omega 612 is anti-magnetic. It does not attract metallic dust and magnetic particles. Omega 612 actually forms a fine film 'skin' that keeps such contamination and dust out of the lubricant and, therefore, away from the interfacial areas.

NOTE:

Ordinary general-purpose workshop lubricants are often electro-statically based. They form a minor but destructive magnetic field which 'draws' airborne particles into the lubricant. This causes untold contamination problems as well as the formation of an abrasive fluid that is constantly fed into valuable equipment. The abrasion promotes wear. Wear requires replacement. Replacement needs time. Time costs money!

LONG LASTING:

Surface migration (moving off or away from the frictional interface) is a major characteristic of ordinary oils currently used in workshops and factories for general-purpose applications. Omega 612 however, contains special supplements designed to promote interface tenacity and actually hold the lubricant in position and prevent migration.

EXCELLENT BASE OIL:

The character of a good lubricant is measured by the type of base oil the manufacturers have used to produce it. Most oils are wax-based or they use easily solidified naphthenic-base oil, which are known to promote oxidation. Omega 612 is, however, only made from the finest base stocks available.

RAPID WATER SEPARATION:

Water is a combination of hydrogen and oxygen. Since oxygen is the major cause of oxidation, it is not unreasonable to suggest that water also causes oxidation. Ordinary oils however, have a tendency to emulsify with water and carry it through the system. This creates inner corrosion which, like cancer, does its damage away from visual checking capabilities. Omega 612 has built-in anti-emulsifiers which positively prevent water infusion.

HIGH E. P. PROFICIENCY:

Omega 612 easily tolerates excessive instantaneous loads frequently encountered during normal industrial use.

OPERATION RANGE:

Omega 612 has a high viscosity index and a low pour point coupled with ideal operating spans to give quality results.

APPLICATIONS:

Omega 612 is ideally suited for:

Chain Drives,	Bearings,
Electric Motors,	Lathes,
Reciprocating Compressors,	Enclosed Gears,
Rotary Compressors,	Hydraulic Equipment,
Torque Converters,	'Poclairn' Hydraulics

and complete lubrication of all factory equipment.

Omega 612 meets & exceeds the following specifications:

- GM LS-2
- MIL-H-17672
- AFNOR NF E 48-690, 691 filterability

TYPICAL DATA:

TEST	ASTM TEST METHOD	SAE 5	SAE 10	SAE 20	SAE 30	SAE 40
ISO Viscosity Grade	D-2422	15	32	68	100	150
Appearance	Visual	Light Yellow	Light Yellow	Light Yellow	Light Amber	Light Amber
Density, Kg/L @ 15°C	D-1298	0.843	0.867	0.870	0.872	0.882
Viscosity, cSt @ 40°C	D-445	15.0	32.0	68.0	100	150
@100°C	D-445	3.5	5.4	8.7	11.3	14.8
Viscosity Index	D-2270	106	106	105	101	101
Flash Point, COC, °C	D-92	220	216	243	261	264
Pour Point, °C	D-97	-31	-21	-27	-27	-24
Aniline Point, °C	D-611	97	116	118	111	113
Foaming Characteristics - All Sequences, After Settling	D-892	Nil	Nil	Nil	Nil	Nil
Rust-Preventing Characteristics - Salt Water, 48 hrs.	D-665	Pass	Pass	Pass	Pass	Pass
Oxidation Characteristics - TOST life, hours	D-943	>5000	>5000	>5000	>5000	>4000
Zinc % Mass	-	0.027	0.027	0.027	0.027	0.027

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.

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 612

Company Identification

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

Distributor

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

Telephone (852) 25775187
Fax (852) 25773190

Telephone (973) 1755 0019
Fax (973) 1755 5108

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>
Highly refined mineral oil**	64742-65-0	60-100	-

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

Highly refined mineral oil 5 mg/m³ (oil mist)

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: Amber liquid
Odour: Mineral oil odour
pH: N.A.

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Specific Gravity: 0.90
Vapour Pressure: N.A.
Boiling Point: N.A.
Melting Point: N.A.
Flash Point: above 100°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: -

**The highly refined mineral oil used in this product contains less than 3% DMSO extract as measured by IP 346.

Remarks: 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 for any loss, damage, or expense, direct or consequential, arising out of their use.