



Omega

The Ultimate Lubricant

73

OMEGA 73 Waterproof Open Gear Grease

SUPERTECH
SERVICES PVT. LTD.
Complete Welding Solutions

For more information visit us at : www.supertechservices.in



Waterproof Open Gear Grease

- *Has super affinity to metal to resist fling-off & wipe-off.*
- *Has outstanding water resistance to minimize wash-off in wet conditions.*
- *Has high extreme-pressure properties to prevent gear surfaces from scoring, galling & scuffing.*

TRUST *Save Money*
OMEGA *Enhance Performance*
TO *Extend Service Life*

MAGNA INDUSTRIAL CO. LIMITED
Total Quality Maintenance



SPECIAL FEATURES

Omega 73 Waterproof Open Gear Grease is the weather-resistant "Protective Wedge" that keeps gears in silent mesh.

- **Omega 73** has a super affinity to metal surfaces – stays in place even in the wet conditions.
- **Omega 73** is quality engineered with special viscosity enhancers to maintain effective lubrication at high, low and fluctuating temperatures.
- **Omega 73** seals out and neutralizes contaminants to keep your equipment running at peak efficiency for longer periods.

OUTSTANDING PROPERTIES

Omega 73 is the waterproof open gear grease that:

- Contains highly active extreme pressure additives to prevent direct metal-to-metal contact in heavy-duty applications.
- Is designed to handle modern load factors and gear design from -8°C to +200°C.
- Stands up to shock, pressure, squeeze-out and fling-off.
- Prevents or reduces wiping, scuffing, galling, rippling, sliding, pitting, scoring and clawing.

USE FOR

Omega 73 is a special weather-resistant open gear lubricant that clings tenaciously in position regardless of wind, rain, sleet, snow, sun, dust and other related elements.

Use **Omega 73** in:

- Cranes • Hoists • Wind Pumps • Winches • Heavy Equipment • Timber Drags • Rail Pulleys • Funiculars • Cable Ways • Ski Lifts • And thousands of applications where a quality weather-resistant lubricant is required.



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The information contained in this publication supersedes all relevant information previously released and is to the best of our knowledge and accurate at the time of issue on 2 Nov. 2012.

Omega 73

NOTE:

The criterion of a good gear lubricant is based on its ability to separate the loading from one pair of gears to another in a multiple gear set. All frictional surfaces within any one gear system - including the gear shaft bearings - are lubricated from one common source. If severe wear and its resulting downtime are to be avoided, no lubricant compromise can be made.

Omega 73 is a specially developed waterproof open gear lubricant designed to provide multiple protection to most open gear systems – without compromise!

DESCRIPTION:

Omega 73 is a special, weather and water resistant open gear lubricant that clings tenaciously in position regardless of wind, rain, sleet, snow, sun, dust storms and other climatic phenomena. It provides the additional protection needed for gears and gear systems that ordinary gear greases fail to provide. Ordinary greases rapidly develop into collective deposits that harden and cause frictional-drag and excessive energy consumption. Omega 73 remains in position and keeps the system and the gears in silent mesh.



CAPILLARY ACTION:

Omega 73 has a capillary action that spreads over metal surfaces and into wear areas. This action prevents or reduces: -

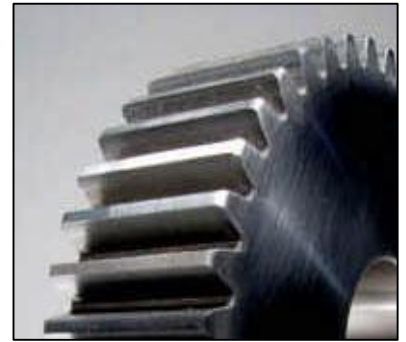
wiping	scuffing	galling	rippling
sliding	pitting	scoring	clawing

These wear aspects are common with the use of ordinary greases.

HYDRODYNAMIC STABILITY:

Omega 73 provides a hydrodynamic "liquid wedge" between gear wear areas. This 'bed' of highly micronized bearings provides minimum friction for intermeshing teeth and shafts / pinions.

Ordinary lubricant deposits build up and rapidly develop into hard spots that score, gel, gall or claw metal surfaces.



EXTREME-PRESSURE & CORROSION RESISTANCE:

Omega 73 is loaded with special heavy-duty Extreme Pressure (EP) and anti-corrosion supplements. These resist:-

Shock	Loading	Pressure
Meshing	Brake seizure	Ratio alterations
Squeeze-out	Start-up pressure	Corrosion

SUPERB ADHESIVENESS:

Ordinary greases are unable to resist the "Rate of slide relative to pressure & Centrifugal Force" in open gear mechanism applications. This causes the grease to squeeze out or fling off, leaving the metal surfaces exposed to corrosion, oxidation and metal-to-metal wear.

Omega 73 has an affinity for metal and clings to the gears!



EXTRA CUSHIONING PROPERTY:

Omega 73's cushioning property (due to its package of thickener and highly refined base fluid) provides extra protection to the open gears against metal-to-metal wear. In addition, this reduces the vibration and noise levels that are potentially damaging to the open gear units and annoying to the personnel working around them.

TEXTURE RETENTION:

Unlike ordinary greases that easily harden, Omega 73 retains its original soft texture. Ordinary greases thin down and squeeze out, even under slight temperature increases. Omega 73 retains its texture and stays in position. It seals out the dust that causes wear in locations where just such conditions prevail: -

Construction
Building

Mining
Farms

Stone Quarries Dam
Land Reclamation

APPLICATION:

Omega 73 has unlimited applications in open gear equipment: Cranes, hoists, wind-pumps, water pumps, winches, heavy equipment, timber drags, rail pulleys, funiculars, cable ways, ski lifts and thousands more.



TEST	ASTM TEST METHOD	Test Result NLGI# 2
Colour	-	Black
Texture		Smooth & Tacky
Mineral Oil Base: -		
Viscosity, cSt at 100°C	D-455	72
Viscosity, cSt at 40°C	D-455	1,488
Viscosity Index, min.	D-2270	111
Flash point, °C (°F)	D-92	254 (489)
Pour point, °C (°F)	D-97	-12 (10.4)
Dropping Point, °C (°F)	D-2265	None
Shell Roll Stability, Point Change	D-1831	6.0
Timken OK load, lbs. min.	D-2509	40
Rust Prevention	D-1743	Pass
Oil Separation, 500 hrs.	D-1742	No Trace
Worked Penetration @77°F	D-217	265-295
Operating Range, °C (°F)	--	-8 to 200 (17.6 to 392)

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

For more details :