



Omega

The Ultimate Lubricant

73

DESCRIPTION:

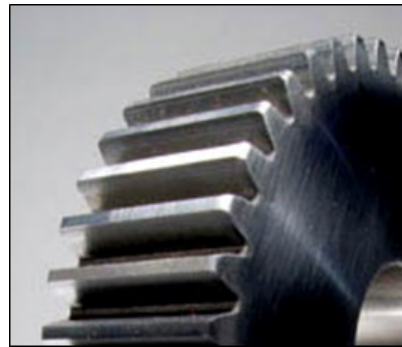
Omega 73 is a special, weather and water resistant open gear lubricant that clings tenaciously in position regardless of wind, rain, sleet, snow, sun, dust storms and other climatic phenomena. It provides the additional protection needed for gears and gear systems that ordinary gear greases fail to provide. 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.



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.



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!

CAPILLARY ACTION:

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

wiping
sliding

scuffing
pitting

galling
scoring

rippling
clawing

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

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!



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.



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

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:

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Construction	Mining	Stone Quarries
Dam Building	Farms	Land Reclamation

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Color	-	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 Temperature 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.