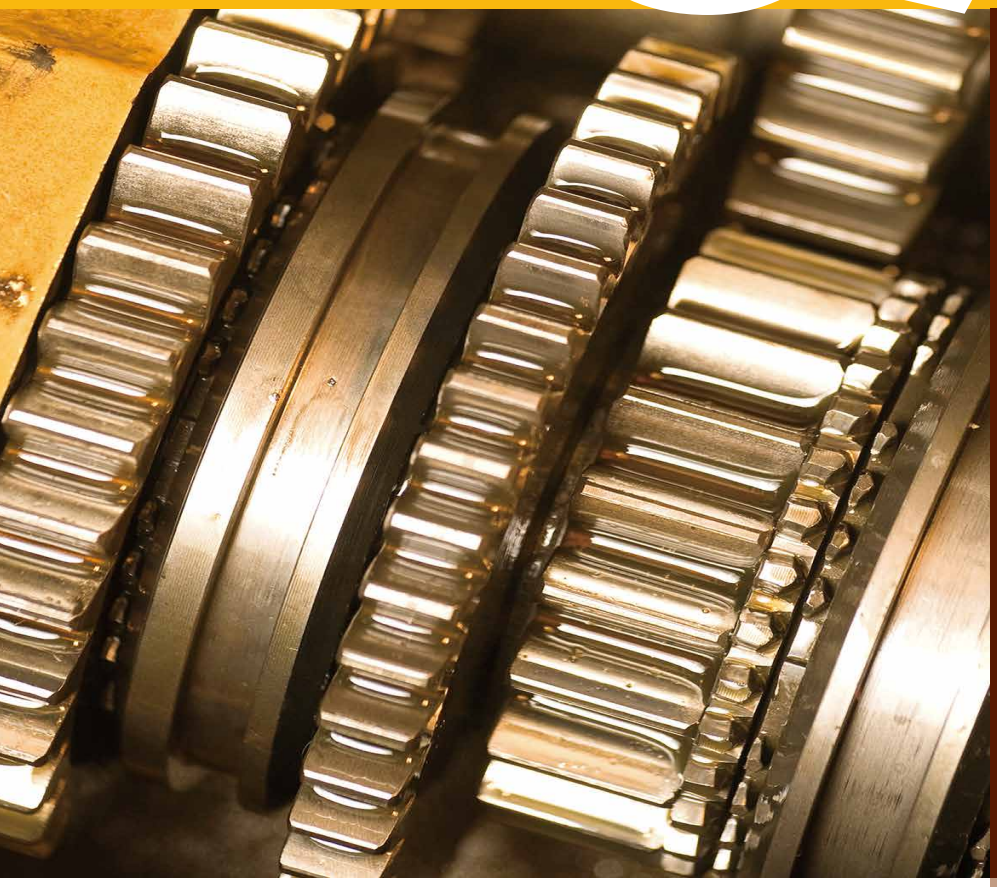
Ωmega®
The Ultimate Lubricant

670

OMEGA 670 Straight Mineral Gear Oil



Straight Mineral Gear Oil

TRUST OMEGA TO

Save Money
Enhance Performance
Extend Service Life

- *100% straight paraffinic gear oil designed for high-purity applications.*
- *Stands up to acids, heat and wear.*
- *Provides exceptional protection against metal corrosion & oxidation.*

ITW PERFORMANCE POLYMERS & FLUIDS®
KOREA

SPECIAL FEATURES

Omega 670 Straight Mineral Gear Oil is the high-purity lubricant engineered specially for high-performance applications where supplements and additives can't be used.

- **Omega 670** is 100% straight paraffinic gear oil designed for optimum results in high-purity applications.
- **Omega 670** stands up to acids, heat and wear that ordinary napthenic oil can't handle.
- **Omega 670** provides exceptional protection against metal corrosion and oxidation.

OUTSTANDING PROPERTIES

Omega 670 is the straight mineral gear oil that:

- Is completely resistant to water and moisture.
- Operates at both ultra-low temperatures, where ordinary oils begin to drag, and higher temperatures, where ordinary oils become unstable.
- Has high resistance to foaming – withstands sustained gear action without aerating.
- Assures freedom from gum and other deposits.

USE FOR

Omega 670 is the result of a unique blending procedure whereby the finest quality, solvent-refined paraffinic oil is gelled with hyper-purity and dewaxed cylinder-quality mineral base oils that provide the superb standard of lubricity that ordinary gear oils are simply unable to attain.

Use **Omega 670** for all gear applications where straight mineral, non-EP gear oils are required.

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The information contained in this publication is to the best of our knowledge and accurate at the time of issue in October, 2016

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DESCRIPTION:

Omega 670 is a hundred percent STRAIGHT paraffinic gear oil designed for high-purity gear applications. It contains the result of a unique blending procedure whereby the finest quality, solvent-refined Paraffinic Oil is gelled with hyper-purity and dewaxed cylinder-quality mineral base oils which provide the superb standard of lubricity that ordinary gear oils are unable to attain.

CORROSION RESISTANCE:

Omega 670 is inhibited against corrosion and oxidation. Its pure saturated characteristic ensures gear surface protection at all times.

FOAMING RESISTANCE:

Omega 670 is also foam resistant and it can withstand sustained gear action without aerating.

INCREASED FILM STRENGTH:

Omega 670 is superior to the other so-called 'straight' mineral oils because its increased film strength can resist wear. This product protects gears for longer periods under severe conditions.

ACIDIC ACTION RESISTANCE:

As a result of Omega 670's purity, the normal oxidation characteristic which forms damaging acidic deposits is impossible.

OPERATING TEMPERATURE:

Omega 670 operates at both ultra-low temperatures where ordinary oils begin to drag and consume costly energy, and at higher temperatures where its body structure remains stable. Ordinary oils thin down so badly that gears rapidly deteriorate and fail.

AGMA STANDARDS:

Regardless of enclosure, speed, size, environment, method of lubrication and the accessibility of gears, Omega 670 provides an exceptionally high viscosity standard that combats galling, rippling, pitting and similar gear failure faults. Ordinary gear oils cannot cope with the type of operation that today's high speed, high powered gears are fabricated for.

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TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT	
		SAE 90	SAE 140
ISO Viscosity Grade	D-2422	220	460
Appearance	Visual	Amber	Light Amber
Density, kg/L @ 15.0°C	D-1298	0.892	0.901
Viscosity, cSt @ 40°C	D-445	220	460
Viscosity, cSt @ 100°C	D-445	19.1	31.6
Viscosity Index	D-2270	98	99
Flash Point, COC, °C	D-92	270	303
Pour Point, °C	D-97	-24	-21
Total Acid Number, mg KOH/g	D-974	0.61	0.61
Foaming Characteristics -			
All Sequences, After Settling	D-892	Nil	Nil
Oxidation Stability -			
TOST life, hours	D-943	>3000	>2000
Rust-Preventing Characteristics			
Distilled Water	D-665A	Pass	Pass
Synthetic Sea Water	D-665B	Pass	Pass
FZG (Fail Load Stage)	CEC L07-A-95	11	11

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

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