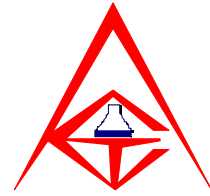


PRODUCT INFORMATION

A PRODUCT OF AMERICAN CHEMICAL TECHNOLOGIES, INC.



EcoGear™ Series

SYNTHETIC GEAR AND BEARING LUBRICANTS

DESCRIPTION:

EcoGear™ Series are fully formulated, extreme-pressure lubricants for enclosed industrial gears. They are formulated to provide excellent lubrication, stability, and extended service life, while eliminating many of the problems commonly encountered with petroleum gear lubricants. EcoGear™ Series takes advantage of the many inherent advantages of their polyalkylene glycol-base fluids and those of the superior additive package developed and proven in years of industrial use. The result is a superior gear lubricant that provides cost savings to the end user.

EcoGear™ Series possess superior operating characteristics, providing reduced operating temperatures, reduced friction, and very little wear. They are noncorrosive to metal surfaces and possess extreme-pressure properties, which make them ideal for the lubrication of worm gears or other gearing utilizing nonferrous metals. Their excellent thermal and oxidative stability eliminates the need for frequent changeover due to premature oxidation of petroleum gear oils. EcoGear™ Series exhibit excellent viscosity-temperature properties, having viscosity indexes exceeding 200; this eliminates the need for seasonal changeover due to climatic temperature changes and allows wider operating temperature ranges than permissible with petroleum oils. Due to the high viscosity index exhibited by EcoGear™ Series, they are not classified by one AGMA viscosity rating. EcoGear™ Series will effectively span 2 or 3 AGMA petroleum lubricants over the operating range of most gearboxes.

BENEFITS:

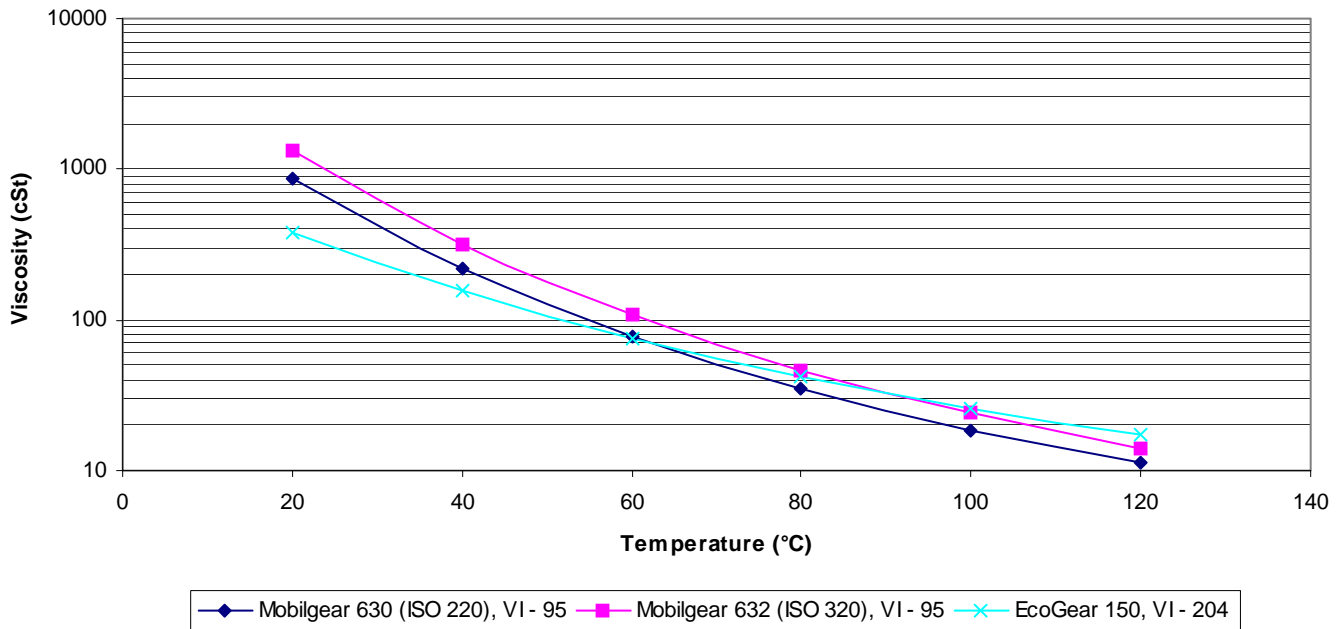
- Reduced energy consumption.
- Extended service life.
- Reduced lubricant and maintenance costs.
- Reduced wear rates.
- Elimination of sludges and carbonaceous residues.
- High Viscosity Index
 1. eliminates seasonal oil changeovers
 2. facilitates cold-weather startups
 3. eliminates motor overloading during startup

SPECIFICATIONS:

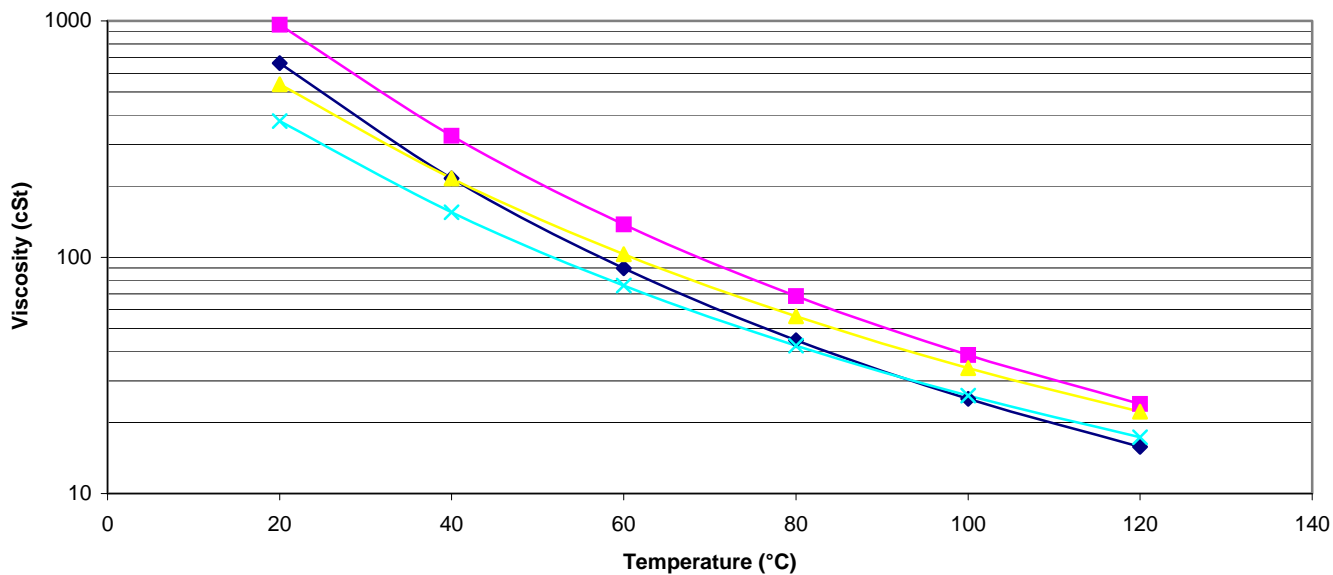
	100	150	220	320
Appearance	Clear, Pale Yellow	Clear, Pale Yellow	Clear, Pale Yellow	Clear, Pale Yellow
Viscosity @ 100°F	500-600 SUS	800 SUS	900-1100 SUS	1600-1800 SUS
@ 40°C	110 cSt	155 cSt	216 cSt	319 cSt
@ 100°C	20 cSt	26 cSt	34 cSt	45 cSt
Viscosity Index	>200	>200	>200	>200
Specific Gravity	1.0	1.0	1.01	1.01
Flash Point, °F (°C)	540 (282.2)	560 (293.3)	560 (293.3)	560 (293.3)
Pour Point, °F (°C)	-58 (-50)	-49 (-45)	-40 (-40)	-31 (-35)
4-Ball EP Test, ASTM D2783				
Weld Load, kg	400	400	400	400
Load Wear Index, kgf	73	73	73	73
Timken OK Load, lb	60 min.	60 min.	60 min.	60 min.

VISCOSITY COMPARISONS:

**Kinematic Viscosity Comparison (centistokes)
EcoGear vs. Straight Oil**



**Kinematic Viscosity Comparison (centistokes)
EcoGear vs. Synthesized Hydrocarbon (PAO)**



◆ Mobil SHC 630 (ISO 220), VI - 152 ■ Mobil SHC 632 (ISO 320), VI - 169 × EcoGear 150, VI - 204 ▲ EcoGear 220, VI - 205

STORAGE AND HANDLING:

We believe EcoGear™ has a low degree of hazard when used as intended. As with all products of this type, we recommend that good hygiene practices be observed, including: (1) avoid prolonged skin contact, (2) provide adequate ventilation, (3) do not ingest; and that all OSHA Standards pertaining to products of this type are observed. Refer to American Chemical Technologies' Material Safety Data Sheet for personnel protection, spill and leak procedures, handling and first aid information.

The information contained herein is correct to the best of our knowledge. The recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material. Freedom to use any patent owned by American Chemical Technologies' or others is not to be inferred from any statement contained herein.