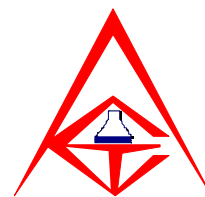


PRODUCT INFORMATION

A PRODUCT OF AMERICAN CHEMICAL TECHNOLOGIES, INC.



EcoGear® Series

SYNTHETIC GEAR AND BEARING LUBRICANTS – NON EP

DESCRIPTION:

EcoGear® Series are fully formulated 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 without EP additives, 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:

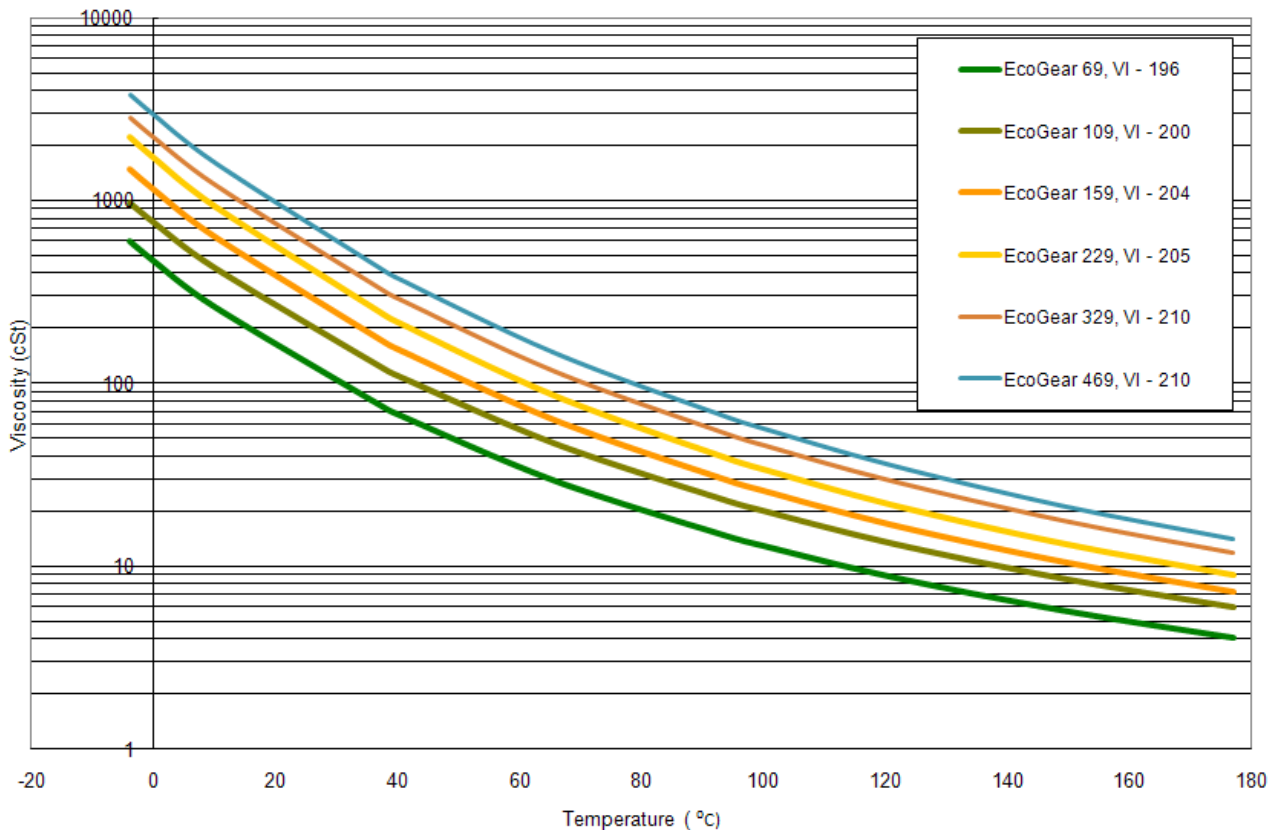
- Reduced energy consumption.
- Extended service life.
- Reduced lubricant and maintenance costs.
- Reduced wear rates.
- Elimination of sludges and carbonaceous residues.
- High Viscosity Index
 1. eliminates seasonal oil changeovers
 2. facilitates cold-weather startups
 3. eliminates motor overloading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

SPECIFICATIONS:

	<u>69</u>	<u>109</u>	<u>159</u>	<u>229</u>	<u>329</u>	<u>469</u>
Appearance	Clear	Clear	Clear	Clear	Clear	Clear
	Pale Yellow	Pale Yellow	Pale Yellow	Pale Yellow	Pale Yellow	Pale Yellow
Viscosity @ 100°F	280-380 SUS	500-600 SUS	800 SUS	900-1100 SUS	1600-1800 SUS	1800-2500 SUS
@ 40°C	68 cSt	110 cSt	155 cSt	216 cSt	319 cSt	460 cSt
@ 100°C	13 cSt	20 cSt	26 cSt	34 cSt	45 cSt	56 cSt
Viscosity Index	196	>200	>200	>200	>200	>200
Specific Gravity	1.0	1.0	1.0	1.01	1.01	1.01
Flash Point, °C (°F)	198 (388)	203 (397)	208 (406)	215 (419)	223 (433)	227 (441)
Fire Point, °C (°F)	299 (570)	299 (570)	299 (570)	300 (572)	304 (579)	309 (588)
Pour Point, °C (°F)	-50 (-58)	-50 (-58)	-45 (-49)	-40 (-40)	-35 (-31)	-46 (-50)
4-Ball EP Test, ASTM D2783						
Weld Load, kg			200 kg			
Load Wear Index, kgf			61.49			
Timken OK Load, lb	60 min.	60 min.	60 min.	60 min.	60 min.	60 min.

VISCOSITY COMPARISONS:

EcoGear Viscosity vs Temperature



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.