

Synthetic Industrial E. P. Gear Lubricants

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
AGMA Grade			1EP	2 EP	3 EP	4 EP	5 EP	6 EP	7 EP	8 EP		
Acculube	ALEP	32	46	68	100	150	220	320	460			PAO
	ALPG						220	320	460	680		PAG
Addinol (Germany)	Eco Gear S				150	220	320	460	680			
	Eco Gear S-T			68								-50C Pour Point
	Poly Gear PG					220	320	460	680			PAG
	Gear Oil CKT			68	100		220	320	460			CLP Type
Agip (Italy)	Blasia S					150	220	320				PAG
	DT SINT			68	100	150	220	320	460	680		
Alithicon*	SGO Enclosed Gear Oil				100	150	220	320	460			
Allegheny Petrol.	Altra SHL Gear EP		46	68	100	150	220	320	460	680	1000	
Aluchem (Italy)	Alusynt X-EP			68	100	150	220	320	460	680	1000	
	Alusynt PSL				100	150	220	320	460	680	1000	PAG
Amalie	Synthetic Industrial Gear Oil						220	320	460	680	1000	
American Agip	Syngear EP		----	----	100	150	220	320	460	----	----	PAO
American Chem. Technologies	EcoGear				100		220	320	460			
American Lubr.	Syn EP Gear					100	150	220	320	460		PAO
American Oil & Supply	PAO Synthetic EP Gear Oil			68	100	150	220	320	460	680		PAO
American Synthol	Amerilube SGL			68	100	150	220	320	460	680		
AMSOIL	-----				SGK	SGL	SGM	SGN	SGO	SGP	----	PAO
Anderol	-----		5001	----	----	5004	5005	5006	5460	----		PAO
	(#) XEP		4046	4068	4100	4150	4220	4320	4460	4680	4111	PAO
	(#) XEP		----	----	----	2150	2220	2320	----	----	----	Diester
Aral (Germany)	Degol PAS					150	220	320	460			PAO
	Degol GS					150	220	320	460	680	1000	PAG
	Degol BAB			68	100		220		460			Ester
	Degol ESG				100		220	320	460			PAO
	Degol BMB		46		100		220	320	460	680	1200	Silicone
	Degol BG		46	68	100	150	220	320	460	680		Silicone
	Degol BG plus				100	150	220	320	460	680		Silicone
Aztec (UK)	Syngear		46	68	100	150	220	320	460	680		PAO
	Synthetic Gear Oil W				100/150							PAG
Baum's Castorine	Tena-Film EP				500	700	1000	1400				
Bechem (Germany)	Berusynth EP				100	150	220	320	460	680	1000	
Bel-Ray	SE2 Lubricant		50	----	65	90	140	200	200	250	350	PAO
	Synthetic Gear Oil 6692							(320)				PAO

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Benz Oil BP	Syn-Tech PAO	----	68	100	150	220	320	460	680	----		PAO
	Enersyn SG-XP					220	320	460				PAG
BVA	Enersyn HTX				150	220	320	460				PAO
	SHP-29				150	220	320	460				PAO
C&C Oil	Duration Syn EP Gear Oil			100	150	220	320	460				
Cam2	Synthetic EP Industrial Gear Lube		68	100	150	220	320	460	680	1000		
Castrol	Isolube EP	46	68	100	150	220	320	460	----	----		Group III Base Oil
	Alphasyn PG				150	220	320	460				PAG
	Alphasyn EP						320					PAO
	Syngear					220						Ester
	Tribol 800-	----	----	----	150	220	320	460	680	1000		PAG
	Tribol 1510/						220	320	460			PAO
	Optigear Synthetic A						220	320	460			PAO
	Optigear Synthetic X							320				PAO
Century/NFO	BIOTOP 1418				150	220	320	460				Biodegradable Ester
	Gear Pro			3S	4S	5S	6S	7S				POE
Cepsa (Spain)	Gear HPS (Engranajes)				150	220	320	460				PAG
	Gear HPX (Engranajes)		68	100	150	220	320	460	680			PAO
Champion	SynGold EPG		68	100	150	220	320	460	680			API GL-5 level
Chemtool	CT EP Gear Oil			100	150	220	320	460				PAO
Chevron	Tegra Synthetic Gear	----	----	----	150	220	320	460	680	----		PAO
CITGO	Citgear Syn EP Gear Lubricant	----	68	100	150	220	320	460	680	----		PAO
Cognis	Emgard (ISO) IND-EP	----	----	----	150	220	320	460	680	----		PAO
	Emery	----	----	----	2825	2826	2827	2828	2829	----		
	Breox IL SW					150	220	320	460			PAG
	Breox SL											PAG, water soluble
Compagnia Italiana (Italy)	Worm Gear Lubricant 65											PAG
	Molyguard Gear Synt	46	68	100	150	220	320	460	680	1000		
Conoco	Syncon EP Gear Oil	----	----	----	150	220	320	460	680	----		PAO
	Syncon EP Plus Gear Oil					220	320	460				PAO, High VI
	Syncon Mist Oil			100								PAO, Mist Lube Systems
	Syncon Premium EP Gear Oil						320	460	680			PAO, GE Wheel Motors
CPI	Syncon WTL						320					PAO, Wind Turbines
	4617-				150	220	320	460				PAO
Darmex	-----				75/90EP	75/90EP	90EP	9140EP	140EP			
David Weber	Syngear EP				100	150	220	320	460			PAO
Dow	UCONALL	32	46	68		150	220	460				PAG
Dow Corning	Molykote L-2100 series			L-2110	L-2115	L-2122	L-2132	L-2146	L-2168			PAO
Dylon	Ultra Gear SL	----	----	----	150	220	320	460	680	1000		
ENOC (UAE)	Reduct SH		68	100	150	220	320	460	680	1000		PAO
	Reduct PG					220	320	460				PAG
Eurol (Netherlands)	Syntan EP				150	220	460					PAG
Exxon	Spartan Synthetic EP	----	----	100	150	220	320	460	680	1000		PAO, no longer marketed
Falk/Rexnord	GMax 6000			(132 cSt@40C)								PAG
Fuchs (Germany)	Renolin Unisyn CLP					220	320	460				PAO
	Renolin PG					220	320	460				PAG

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Gulf Oil Ltd	Synthetic Gear					150			460			PAG
	EP Lubricant SY				100	150	220	320	460	680	1000	PAO
Huskey	SGL-800 series	32	46	68	100	150	220	320	460	680	-----	PAO
Idemitsu Kosan (Japan)	Daphne Alpha Gear	32	46	68	100	150	220	320	-----			
	Daphne Alpha Worm							320	460			
Igol (France)	Synarok											PAG
Ind. Oils Unltd	Syngear G-				100	150	220	320	460			
Industri-Lube	SGO		-----	68	100	150	220	320	460	680	-----	
Igol (France)	Synarok GY											PAG
	Synarok Synth											
Irving Oil	Syn Gear Oil			68	100	150	220	320	460	-----	1000	PAO
JAX	Synax EP		-----	-----	-----	150	220	320	460	680	-----	PAO
Keystone	KSL Gear Lube		-----	-----	-----	150	220	---	460	-----	-----	Diester, see note below
	Keygear					150	220		460			See note below
Kluber (Germany)	Syntheso D (ISO) EP		-----	-----	-----	150	220	320	460	680	-----	PAG
	Klubersynth EG 4-		-----	-----	100	150	220	320	460	680	-----	PAO
	Klubersynth GH 6-		-----	80	100	150	220	320	460	680	1000	PAG
	Klubersynth GEM 4-		32N-46N	68N	100N	150N	220N	320N	460N	680N		
Kost	KOSTGard SynGard EP			68	100	150	220	320	460	680		
Leahy-Wolf	Synmaster					EP4	EP5	EP6	EP7			PAO
Lee Helms	Triden SynGear SHF	32	46	68	100	150	220	320	460			
Leprinxol (Germany)	PG GK Synth		46	68	100		220			680		PAG
LuBest/Momar	Gear Oil				EP3	EP4	EP5	EP6	EP7			PAO
LubMarine (Total)	Elf Epona SA						220	320				PAO
Lubricants USA	Synpro EP	32	46	68	100	150	220	320	460	680	10009	PAO
	PAG Gear Lube					150	220	320	460	680		PAG
Lubrication Engrs.	Monolec		-----	-----	-----	-----	9220	9320	9460	-----	-----	PAO
LUBRIPLATE	Synlube HD	-----	-----	-----	-----	150	220	320	460	680	-----	PAO
Lubrax/Lubritene (South Africa)	Lubrene GO Syn										1000	
Maxol (Ireland)	Synthetic Gear Oil W (viscosity unknown)											PAG
Meguin (Germany)	Gearol Synth CLP						220	320	460	680		PAO/Ester
Metalcote	MC EP Gear Oil				100	150	220	320	460			PAO
Metatron (Mexico)	Metatron 691				100	150	220	320	460	680		PAO
Mobil	Mobilgear SHC		-----	-----	-----	150	220	320	460	680	1000	PAO, see below
	Mobilgear SHC							XMP				PAO, see below
	Glygoyle		-----	11 (ISO 68/100)	22	30			HE460	HE680	-----	PAG
Molyduval (Germany)	Syntholube G EP	46	68	100	150	220	320	460	680	1000		PAG
Moroil Tech.	SGL				100	150	220	320	460			
Morris (UK)	Lodexol FS					150	220	320	460			PAO
	Lodexol PG					150	220	320	460			PAG
Nippon Oil	Bonnoc AX											PAO
OptiDyn	OPGL						220	320	460			
Orelube						OL-150	OL-220	OL-320	OL-460	OL-680		
Pacer	SGO					704		706		708		PAO
Pennzoil	Super Maxol S		-----	68	100	150	220	320	460	-----	-----	PAO

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Petro-Canada	Enduratex Synthetic EP	----	----	----	150	220	320	460	----	----		PAO
	Ultima Synthetic EP	----	----	----	150	220	320	460	----	----		Obsolete, replaced by Enduratex Synthetic
Petronas (Malaysia)	Gear Syn IG	32	46	68	100	150	220	320	460	680	1000	PAO
Petronomics	PAO Ind. Gear Oil		51072	51074	51076	51078	51080	51082	51084	51086	51088	PAO
	PAO HD Ind. Gear Oil					51092	51094	51096	51098	51101	51102	PAO
	PAO Gear & Bearing Oil	51122	51124	51126	51128	51130	51132	51134				PAO
	Polyglycol Gear & Bearing Oil		51390	51392	51394	51396	51398					PAG
	PAO Ind. Gear Oil	55160	55162	55164	55166	55168	55170	55172		55174		PAO
	PAO Low/High Temp Gear Oil	55346	55348	55350	55352	55354	55356	55358				PAO
	PAO Low Temp Oil		57202	57204	57206	57208	57210					PAO
	Polyglycol Gear Oil					58270	58272	58274	58278			PAG
Phillips	Syncon EP Gear Oil	----	----	----	150	220	320	460	680	----		PAO
	Syncon EP Plus Gear Oil					220	320	460				PAO, High VI
	Syncon Mist Oil			100								PAO, Mist Lube Systems
	Syncon Premium EP Gear Oil						320	460	680			PAO, GE Wheel Motors
	Syncon WTL						320					PAO, Wind Turbines
PICO Chemical	Syn GO EP			100	150	220	320	460				
Primrose	Syn-O-Gen 747-S			----	150	220	320	460	680	1000		PAO, also ISO 1500
Prolab	Monogear Synthetic				150	220	320	460	680			PAO
QALCO (Qatar)	Syntech GL							460	680			PAG
Ravenol (Germany)	Getriebeoil PAO CLP		68	100	150	220	320	460				PAO
Repsol-YPF (Spain)	Super Tauro PAG					150	220	320	460			PAG
	Super Tauro Sintetico			100	150	220	320	460				PAO/Ester
Rosemead	Betalube E				150-P	220-P	320-P	460-P	680-P			
Royal Lubricants	Royco	----	----	----	611	612	613	614	616	618		PAO
	Royco	----	----	----	637	638	----	639	----	----		PAG
Royal Mfg.	Monarch Syngear	32	46	68	100	----	220	----	460	----		
Royal Purple	Thermyl-Glyde		46	68	100	150	220	320	460	680	1000	PAO
Schaeffer	167 Moly Pure S.G.L.	----	68	100	150	220	320	460	680	----		PAO
Sentinel	S-	S-75	S-80	S-75/80	S-75/90	S-90	S-90/140	S-140	S-250			PAO
Sentinel Canada	SenSyn 1002PD, 1005PD, 1007PD, 1008PD (viscosities unknown)											PAO/Diester
	SenSyn 5600 Mild EP series (ISO VG 150 to 1000)											PAO, Mild EP
	SenSyn PG EP series (ISO VG 150 to 1000)											PAG
Setral (Germany)	Syn Gear EP series											
Shell	Omala HD	----	----	----	150	220	320	460	680	----		PAO
	Tivela S	----	----	----		220	320	460	680	----		PAG
Shell Canada	Tivela S					220		460				PAG
	Hyperia S					220		460	680			Approved for GE Wheelmotors
Sinclair	Dyno-Tech EP	----	68	----	150	220	320	460	680	----		
Sinopec (China)	Great Wall Fully Syn HD Industrial Gear					220	320					PAO
SLFi	SGL		68	100	150	220	320	460	680			
	Syn Bowl Mill						EMT320	EMT460	EMT680			
Sogelub (Belgium)	SOG Synthogear (viscosity grades unknown)								680			
Statoil (Norway)	LoadWay PG				150	220	----	460				PAG
	Mereta								680	1000		PAO
Summit (Kluber NA)	Syngear SH	----	----	1010	1015	1020	1032	1046	1068	1100		PAO
Sun Belgium	Duragear				150	220	320	460				PAO
Superior Ind.	Ultra-Matic Syn EP Gear	S-80	S-75/80	S-75/90	S-80/90	S-90	S-85/140	S-140	S-250			Diester

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Taylor Petroleum	Emert EP Industrial Gear Lube					150	220	320	460			
Texaco	Pinnacle EP		----	----	----	150	220	320	460	680	----	PAO, no longer marketed
Thermal-Lube	XL7316	32	46	68	100	150	220	320	460	680	1000	PAO
Total	Carter SY		----	----	----		220	320	460	----	----	PAG
	Carter SH		----	----	----	150	220	320	460	680	1000	
Tribology	T(ISO Grade) EP Gear Oil		----	----		150	220	320	460	680	1000	PAO
Tech-Lube												
Tri State Indust.	Syn Gear DE				100	150	220	320	460			Diester
Ultrachem	Omnigear EP		----	68	100	150	220	320	460	680	----	PAO
	Chemlube			80W		80W-90	140	150	250			Ester
	Ultrachem EP			68	100	150	220	320	460	680		PAO
Ultramar (Canada)	Emgard Syn. WGL					150	220	320	460			Cognis product
(subsidiary Valero)	Emgard Syn IND-EP					150	220	320	460			Cognis product
Valvoline	SynGard G		----	----	----	----	----	----	680	----	----	
Veloil (Thailand)	Indpro Syngear EP			68	100	150	220	320	460	680		
Verkol (Spain)	Corvus EP					150	220	320	460			
	Patela					150	220	320	460		1000	PAG
Wallover	WOCO SGO				----	150	220	320	460			PAO
Whitmore	Decathlon HD		----	----	----	150	220	320	460	680	1000	PAO
	Decathlon F							320				PAO
Wunsch (Germany)	Synthetik Fluid SG-220			68	100	150	220		460			PAG
	Synthetik Fluid SGW				100	125	220					PAG
Yale Selco (India)	Selco SF-400								320		680	
76 Lubricants	Syncon EP Gear Oil		----	-----	-----	150	220	320	460	680	----	PAO
	Syncon EP Plus Gear Oil						220	320	460			PAO, High VI
	Syncon Mist Oil				100							PAO, Mist Lube Systems
	Syncon Premium EP Gear Oil							320	460	680		PAO, GE Wheel Motors
	Syncon WTL							320				PAO, Wind Turbines

* Southeast Oil & Grease

Special note:

Mobil – also Mobilgear SHC 22M & 46M, which are ISO 23,000 & 46,000 respectively

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Notes, disclaimer, and copyright:

1. The intention of this study was to list only finished synthetic lubricants made from Group IV or Group V base oils; a few of the above, unknown to our knowledge, may possibly contain Group III base oils.
2. All the above lubricants are full synthetic; non are para-synthetic or semi-synthetic.

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3. A few of the above listed lubricants may no longer be marketed, but were intentionally listed so that the user of these charts could determine a suitable replacement for a recently obsoleted lubricant.
4. This chart is only intended as a list of similar synthetic lubricants. LubriTec does not intend to represent that all the lubricants listed herein are necessarily of the same quality or offer the same level of performance in all instances. Quality and performance can vary.
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