

LubriTec

Synthetic Lubricant Cross Reference Chart Series



Synthetic SAE 50 Manual Transmission Fluids

	Name	Remarks
Allegheny Petroleum	Altra Syntec CD-50	
Allied Oil & Supply	Allied Mag Synthetic 50	
Amalie	Synthetic Manual Transmission Fluid GL-1 SAE 50	
American Agip	Syn-Trans CD-50	
Benz Oil	Syn-Tech CD-50	
Black Bear	SYN-CD Gear Lubricant 50	
BP	Energear SHX-G Transmission Oil S-CD 50	
Caltex	Synstar TL 50	
Cam2	Synthetic Transmission Fluid SAE 50	
Castrol	Syn-Gear CD 50 SYNDRIVE 50 E	
Castrol New Zealand	Syntrans Syntrans AT	API GL-4 API GL-4, for MB Actros & Atego., MB 235.11
Cenex	Maxtron MT 50	
Champion	HTS Manual Transmission Fluid	
Chemtool	Dyno-Tech Synthetic 50	
Chevron	Syn-Star TL 50 RPM Synthetic Transmission Fluid 50	PAO
Citgo	Synthetic Gear Lubricant CD-50 Citgear HD 50	
Cognis	Mystik Synguard SX-7000 SAE 50 Emgard 2836, 2924 Emgard SAE 50 Synthetic Transmission Lubricant	
Conoco	Syncon HP Synthetic Transmission Oil 50	
D-A	Syn-Sure Synthetic Lube 50 Synsure 2 Synthetic Lube 50	
David Weber	Gibraltar Syn-Gear CD-50	
Eaton	Roadranger CD-50	

	Name	Remarks
Exxon	SGO 50 (Synthetic Automotive Gear Oil)	PAO
	Synthetic Automotive Gear Oil 50	PAO
Farmland	Synthetic Transmission Oil 50	
Ford	Motorcraft Full Synthetic Manual Transmission Fluid	
Fuchs (Germany)	Titan Gear Syn 50	
General Motors	Synthetic Manual Transmission Fluid 12345724	
Great Wall Sinopec (China)	Great Wall Syn Manual Transmission Fluid	
Gulf Oil (ARG)	Synthetic Transmission Oil 50	PAO
Industrial Oils Unlimited	Hi-Tek Synthetic 50	
Irving Oil	Syn IDO 50	
JAX	Maxxum 50	PAO
Kendall	SHP Synthetic Manual Transmission Gear Lubricant 50	
Lubemaster	Synthetic 50 Transmission Lube	
Lubricants USA	Fina SynPro Synthetic Transmission Oil 50	PAO
Lubrication Engineers	650 Transmission Lubricant 50	
Mack	Bulldog Synthetic Transmission Fluid 50	
Marathon	HD Synthetic Transmission Fluid 50	
McCollister	United Syn Gear 50	
	Archer Trans Fifty	
Metatron (Mexico)	Metatron 742	
Mobil	Mobiltrans SHC 50	
	Delvac Synthetic Transmission Fluid 50	
Navistar/International	Fleetrite Synthetic 50 Transmission Oil	
NEO	NEO SAE 50 Synthetic Transmission Oil	
Northland	Synergy Synthetic Transmission Fluid 50	
PACCAR	Kenworth Synthetic SAE 50	
Pennzoil	Power Trans EW 50	
Petro-Canada	Syngear E CD 50	
	Traxon E Synthetic CD-50	
Phillips 66	Philguard Transoil 50	
Primrose	744 Syn-O-Gen CD-50 Transmission Lubricant	
Quaker State	FCI Synthetic Transmission Fluid CD 50	
Raloy	Transintex Plus EP CD-50	
Redline	Synthetic Manual Transmission 50	
Royal Manufacturing	Monarch Syntran Plus 50	
Schaeffer	742 Synthetic Lubricant 50	
Sentinel Canada	SEN SYN CD-50E	
Shell	Dentax S 50	
Silogram	Syn Gear CD 50	
Sinclair	Dyno-Tech Synthetic 50	
Southern FS	FS Synthetic 50 Transmission Fluid	
Summit	Syntenal CD 50 EQ	
Taylor Petroleum	Emgard SAE 50 Transmission Fluid	
Texaco	Syn-Star TL 50	

	Name	Remarks
TRC	Syntex 2000	
Universal Lubricants	Dyna-Plex 21C Synzol SAE 50	
Valvoline	Heavy Duty Synthetic Transmission Fluid 50	
76 Lubricants	76 Triton Syn Lube CD-50	

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 be made from Group III base oils. The vast majority of the above are PAO based.
2. All the above lubricants are full synthetics; none are semi-synthetic or para-synthetic.
3. All above oils (except for a few lesser known suppliers where data is not provided) are typically API CD and API GL-1 except where noted..
4. The majority of the above meet/exceed the requirements for Eaton Roadranger/Fuller and Rockwell/Meritor extended drain.
5. 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 an obsolete lubricant.
6. Disclaimer: every effort was taken to ensure that these charts are as accurate as possible; however, we are not liable for any errors or inaccuracies. LubriTec will not be responsible for any decisions made as a result of the information provided above.
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Additions and modifications are requested from the technical staff of the above listed lubricant marketers. These modifications will then be incorporated into updated charts and presented in another series after this series is complete.

Source: LubriTec Research

Synthetic Base Stock Specifications (for base stocks used in these synthetic lubricants)
 (these will also appear in Section 19 of our Inaugural Annual Synthetic Lubricant Cross Reference Chart Book)



Company/Base Stock						Viscosity at 100C, cSt							
	2	4	6	8	10	12	14	28	40	100	150	300	1,000
PAO													
SpectraSyn	2, 2B	4, 5	6, 6LN	8	10				40	100			
SpectraSyn Ultra											150	300	1000
SpectraSyn Plus													
Ester													
Esterex	A32,A34	A41	A51			TM101	TM111	TM141					
		P35	P61	P81				DB121					
		NP343	NP451	NP372	NP396								
		NP451	NP471						NP4101		C4261	C4461	
Alkylated Naphthalenes													
Synesstic		5							12				

Note: The primary difference between SpectraSyn and SpectraSyn Plus is the unique combination of low volatility and low-temperature fluidity of the SpectraSyn Plus, which can be valuable to a formulator working to develop a new step-out lubricant or to gain base oil blending flexibility to improve current formulations.

Afton Chemical

Base Stock						Viscosity at 100C, cSt							
	2	4	6	8	10	12	14	28	40	100	150	300	1,000
Alkylbenzene													
HiTEC 6949		(5.1 cSt at 100C)											

Are your synthetic base stocks used for blending these oils not shown here? If not, and you wish them to be, please send us the name/number designation, type of synthetic base stock, primary application(s) and ISO Viscosity Grade of each.