



NYCO
INDUSTRY & AUTOMOTIVE

NYCOBASE®

PRODUCT SELECTION GUIDE



NYCOBASE®: High performance synthetic esters

PRODUCT NAME	Ester chemical description *	Physical and Chemical Properties											Main Features and benefits	
		Viscosity at 40°C (mm²/s)	Viscosity at 100°C (mm²/s)	Viscosity Index	Density at 20°C (kg/m³)	Pour Point (°C)	Flash Point (°C)	Volatility Noack 1 h at 230 °C (% weight)	Iodine value (g ₂ /100g)	Saponification number (mgKOH/g)	Biodegradability OECD 301B (%)	Renewable Carbon (%)		LuSC list **
MONOESTERS														
Nycobase 8110		3.2	1.3	-	862	-75	150	100	<1	209	80	52		Ultra-low temperature, high flash point, friction modifier
* Nycobase 9108		3.3	1.3	-	861	-90	160		0	208	>60	0		Ultra-low temperature, high flash point, friction modifier
DIESTERS														
Nycobase ADE	DOA	7.7	2.3	120	925	-72	200	35	0	298				Low temperature, seal swell
Nycobase SEH	DOS	12	3.2	153	914	-80	230	11.4	0	262	>60	38		Low temperature, polarity agent, lubricity
Nycobase ADD	DIDA	14	3.6	145	918	-69	232	11.5	0	271				Low temperature, polarity agent
Nycobase ADT	DTDA	26	5.3	136	911	-58	240	4.2	0	220				Low temperature, polarity agent
Nycobase 3608	DIMERATE	99	13.6	139	913	-51	300	1.3	91	143		69		High viscosity, low pour point
NEOPOLYOL ESTERS														
Nycobase 8210	NPG	8.4	2.5	140	916	-40	210	31.2	<1	297	80	77		Low viscosity, excellent anti-wear features
* Nycobase 7300	TMP	14	3.4	120	959	-66	235	8.5	0	358	85	0/77		Excellent viscosity/volatility ratio, low temperature
Nycobase 5400	MPE	16	3.7	115	1019	-63	235	10.7	0	475	>60	0		Outstanding thermo-oxidative stability, detergency
Nycobase 8317	TMP	17.5	4.0	130	948	-60	250	5.0	<1	325	>60	55/80		Low volatility, multi-purpose
Nycobase 8103	TMP	19.6	4.4	136	943	-45	257	2.2	<1	309	79	81	✓	Multi-purpose, environmental profile
Nycobase 7450	MPE	20.2	4.4	128	999	-57	248	5.4	0	428				Outstanding thermo-oxidative stability, detergency, polarity
* Nycobase 9300	TMP	21.0	4.6	140	941	-45	260	2.3	0	304	85	0		Multi-purpose
Nycobase 7400	MPE	22	4.7	134	978	-33	260	1.6	0	310	>60	0/84		Thermo-oxidative stability
* Nycobase 8311	TMP	22.6	4.9	148	937	-36	270	2.1	1.4	300	77	82	✓	Multi-purpose with enhanced lubricity
* Nycobase 5750	MPE	24.5	5.1	140	987	-59	260	2.2	0	390	>60	15/62		Wide temperature range
Nycobase 8410	MPE	29.1	5.8	147	957	-6	287	0.8	<1	329	78	87		Anti-wear performance, high flash point
* Nycobase 8318S	TMP	43	7.6	151	926	-36	283	1.4	3	246	67	84	✓	Oxidation stability, environmental profile
Nycobase 3118	TMP	46	9.4	192	917	-42	316	0.5	85	180	84	89		Multi-purpose, moderate temperatures
Nycobase 20441	MPE	64	8.7	109	957	-39	265	1.2	0	330				Oxidation stability and cleanliness
* Nycobase 1040X	MPE	94	10	88	955	-27	272	2.0	0	328				Outstanding oxidation stability and cleanliness
* Nycobase STM	TMP	106	14.3	137	915	-30	310	0.6	5	181	63	90	✓	Oxidation stability, environmental profile
Nycobase 9670X	DPE	174	17.3	107	969	-30	285	0.3	0	316				Outstanding oxidation stability and cleanliness
Nycobase 1060X	DPE	250	20	92	967	-25	296	0.4	0	305				Outstanding oxidation stability and cleanliness
* Nycobase 9600X	DPE	380	25.6	88	964	-15	295	0.3	0	310				Ultra-high temperature, cleanliness

* Selection of NYCO's differentiating products

* NPG = Neopentylglycol, TMP = Trimethylolpropane, MPE = Monopentaerythritol, DPE = Dipentaerythritol

** LuSC list products are approved for straightforward use in European Ecolabel compliant lubricants

NYCOBASE® PROPERTIES

PRODUCT NAME	Ester chemical description *	COMPLEX ESTERS											Main features and benefits
		Viscosity at 40°C (mm²/s)	Viscosity at 100°C (mm²/s)	Viscosity Index	Density at 20°C (kg/m³)	Pour Point (°C)	Flash Point (°C)	Volatility Noack 1 h at 250 °C (% weight)	Iodine value (g ₂ /100g)	Saponification number (mgKOH/g)	Biodegradability OECD 301B (%)	Renewable Carbon (%)	

COMPLEX ESTERS

* Nycobase 8306		28	5.7	150	936	-42	268	2.3	6		67	82	✓	Low viscosity, lubricity
Nycobase 20365		28.7	6	162	937	-36	280	2.2	2		88	82		Low viscosity, lubricity
Nycobase 8345		43	8	162	941	-45	271	2.3	12.8	293	81	82	✓	Lubricity, environmental profile
Nycobase 8145		47	8,5	162	946	-54	264	3.1	15		>60	81		Low temperature
Nycobase 8812		73	12	163	942	-42	270	1.8	8		65	82	✓	Multi-purpose, friction modifier
Nycobase 3645		125	17	148	919	-48	290	1.4	80	166	69			Film thickness, lubricity
Nycobase 8355		152	20	152	993	-42	270	2.2	0.4	355	66	63		Friction modifier, oxidation stability
Nycobase 8828		223	28	164	947	-36	270	1.8	14			82		High viscosity, multi-purpose
* Nycobase 8361		316	32	142	1014	-33	270	1.9	<1		67	55	✓	Friction modifier, oxidation stability, environmental profile
Nycobase 4045		424	43	153	953	-33	270	1.9	51	273		86		High viscosity, film thickness
Nycobase 8851		520	50	160	950	-33	285	1.3	18	277		86		High viscosity, oxidation stability, film thickness
* Nycobase 8397		1000	84	164	1029	-21	292	2.1	<1		79	50	✓	High viscosity, adhesion, environmental profile
Nycobase 8898		1200	104	175	951	-27	290	1.4	21			87		High viscosity, film thickness
Nycobase 6001		10077	622	230	956	-6	286	1.2	22.5	225		87		High viscosity, thickener

HX-1 CERTIFIED FOOD GRADE ESTERS, Halal & Kosher (Pareve) certified

Nycobase 20307 FG	DIESTER	11.7	3.3	164	913	-66	224	11.4	<1	264	84	38		Low temperature, polarity
Nycobase 30401 FG	NEOPOLYOL	20	4.4	136	943	-51	250	2.2	<1	308	>60	80		Multi-purpose
* Nycobase 30409 FG	NEOPOLYOL	21.2	4.6	141	942	-48	255	2.4	<1	305	85	-		Multi-purpose
Nycobase 30502 FG	NEOPOLYOL	23	4.9	148	938	-39	270	2.1	2	301	>60	80		Enhanced lubricity
Nycobase 40810FG	COMPLEX	45.0	8.1	157	941	-39	265	2.3	13	290	81	82		Multi-purpose
Nycobase 43203 FG	COMPLEX	330	33.2	142	1015	-27	270	1.9	<1		>60	55		Oxidation stability, friction modifier
Nycobase 43608 FG	COMPLEX	330	36.2	160	948	-36	272	1.5	17		56	85		Compatibility with hydrocarbon base fluids
* Nycobase 32506 FG	NEOPOLYOL	390	25.3	89	963	-20	295	0.3	<1	308				High temperature, cleanliness
* Nycobase 45004 FG	COMPLEX	503	50	160	951	-33	284	1.3	20	278	46	86		High viscosity, film thickness, hydrocarbon base fluid compatible
Nycobase 46115 FG	COMPLEX	9900	580	230	957	-6	300	1.2	22	220		87		Ultra high viscosity, thickener

SPECIALTY ESTERS

* Nycobase 618	POLYESTER	130	19.4	170	1109	-3	260	3.4			>60	15		Water soluble, lubricity
Nycobase 619	POLYESTER	122	18	165	1145	-33	254	8.3	0		>60	0		Water soluble, lubricity
Nycobase ADEP 12	POLYESTER	170	21	145	1064	-33	240							Hydrocarbon resistant, high density
Nycobase LPG 400	POLYESTER	7000	450	228	1160	5	310		0					Hydrocarbon resistant, high viscosity

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** LuSC list products are approved for straightforward use in European Ecolabel compliant lubricants

APPLICATION GUIDELINES

PRODUCT NAME	2-stroke engine oils	4-stroke engine oils	Hydraulic fluids	Industrial gear fluids	Automotive gear oils and transmission fluids	High temperature fluids	Air compressor oils	Metalworking fluids	High temperature chain oils	Greases	Textile	Marine	Ink coating plasticizers
MONOESTERS													
Nycobase 8110		●	●		●			●					●
Nycobase 9108		●	●		●			●					●
DIESTERS													
Nycobase ADE			●		●		●	●		●			●
Nycobase SEH	●	●	●	●	●		●	●		●			●
Nycobase ADD			●		●		●	●		●			●
Nycobase ADT	●	●	●	●	●		●	●		●			●
Nycobase 3608	●				●			●		●	●		
NEOPOLYOL ESTERS													
Nycobase 8210		●	●		●			●					
Nycobase 7300		●	●		●		●	●					
Nycobase 5400						●							
Nycobase 8317		●			●	●	●						
Nycobase 8103	●	●	●	●	●	●	●	●		●	●	●	
Nycobase 7450					●	●		●					
Nycobase 9300	●	●	●	●	●	●	●	●	●	●	●	●	
Nycobase 7400		●			●	●	●	●					
Nycobase 8311	●	●	●	●				●		●	●	●	
Nycobase 5750				●		●	●		●	●			
Nycobase 8410				●				●		●	●		
Nycobase 8318S			●	●						●		●	
Nycobase 3118			●					●		●			
Nycobase 20441						●	●		●	●			
Nycobase 1040X						●	●		●	●			
Nycobase STM		●	●	●								●	
Nycobase 9670X						●	●		●	●			
Nycobase 1060X						●	●		●	●			
Nycobase 9600X						●	●		●	●			

APPLICATION GUIDELINES

PRODUCT NAME	2-stroke engine oils	4-stroke engine oils	Hydraulic fluids	Industrial gear fluids	Automotive gear oils and transmission fluids	High temperature fluids	Air compressor oils	Metalworking fluids	High temperature chain oils	Greases	Textile	Marine	Ink coating plasticizers
COMPLEX ESTERS													
Nycobase 8306	●	●	●		●							●	
Nycobase 20365	●	●											
Nycobase 8345			●									●	
Nycobase 8145			●										
Nycobase 8812	●	●	●	●						●		●	
Nycobase 3645				●				●					
Nycobase 8355				●					●	●			
Nycobase 8828		●		●									
Nycobase 8361				●		●	●		●	●		●	
Nycobase 4045			●	●				●		●			
Nycobase 8851		●	●	●	●			●		●			
Nycobase 8397				●		●			●	●		●	
Nycobase 8898				●						●			
Nycobase 6001	●	●		●				●		●			
FOOD GRADE ESTERS													
Nycobase 20307 FG			●	●						●			
Nycobase 30401 FG			●	●		●	●	●	●	●			
Nycobase 30409 FG			●	●		●	●	●	●	●			
Nycobase 30502 FG			●	●						●			
Nycobase 40810 FG			●	●						●			
Nycobase 43203 FG			●	●		●	●		●	●			
Nycobase 43608 FG			●	●						●			
Nycobase 32506 FG						●	●		●	●			
Nycobase 45004 FG			●	●				●		●			
Nycobase 46115 FG				●				●		●			
SPECIAL ESTERS													
Nycobase 618								●					
Nycobase 619								●					
Nycobase ADEP 12										●			
Nycobase LPG 400										●			



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