mirOil products catalouge

Automotive Oils / Industrial Oils / Greases



Our thought is:

Get closer than ever to your customers so close that you tell them what they need well before they realize it themselves.

6 28 38 46 60 76 124 Grease

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Product Guide

10 Gasoline Engine Oil

Diesel Engine Oil

Motorcycle Oil

Gear Oil

Coolant/Antifreeze

Industrial Oil

110 Fuel And Base Oil

Product Guide



MirOil

can help

MirOil

Lubricants team

PRODUCT NAME

MirOil Motor Oil	SN 0W-20	Hyundai SONATA Hybrid – Toyo
MirOil Motor Oil	SN 5W-30	Porsche – Lexus – Mercedes Benz –
MirOil Motor Oil	SN 10W-40	CHAN GAN Cs35 – CHAN GAN I
MirOil Motor Oil	SM 5W-40	Mazda 3 New – Mazda 6 – Lexus Lexus ES 3502013 – Renault Kole KIA CERATO NEW – KiA CERATO KIA CERATO NEW – KIA CERATO Optima KIA – KIA Sorento – KIA Hyundai SONATA YF/LF – Azera Hyundai Santafe – Hyundai iX35
MirOil Motor Oil	SL 10W-40	Saina – SOREN ELX – RUNNA – I Peugeot 405 SLX – Peugeot 405 Renault SANDRO – Peugeot Pars JAC S5 – JAC J3 – JAC J5 – Brillia H230 – Pride 131 SE – Pride 131 MVM 110 – MVM 315 – MVM 53 Suzuki Kizashi – Rich – MG6 – Ma Volkswagen Gol – LIFAN X60 – L
MirOil Motor Oil	SL 20W-50	Samand LX – Samand SE – Sama
MirOil Motor Oil	SJ 20W-50	Pajero – GEELY Em Grand – Niss Roniz Peugeot PRAS Xu7 – Zamy Arisun – Peugeot 405 GLX
MirOil Motor Oil	SG 20W-50	DAEWOO Cielo – Renault5 – Ren Pride nasim – Pride 131 – Pride 1 RD
MirOil Motor Oil	SF 20W-50	Karvan saipa – Peykan – shooka
MirOil Motor Oil	SE 20W-50	Cheverolet – satellite Chrysler – E

MirOil

is a problem solver

is your partner for your business



ota Perios

CAR NAME

- **BMW X**^ε - **BMW X**[¬] - **BMW** X³

EADO

us Gs 430 – Lexus LS300 – Lexus RX – Lexus SC 430 leos 2000 CC – Renault Capture turbo – Sportage KIA QL O 1600 – KIA CERATO 1800 – KIA CERATO 2000 O cupe – picanto – motlave – Karnival – Peugeot407 Murano – KIA Murano Z50 – QASHQAI – Nissan Tiana a Grandeur – Hyundai Genesis – Hyundai iX55 5 – Hyundai i20 – Hyundai i30 – Hyundai i10 – Cadenza

DENA – DENA PLUS – Samand ELX – Peugeot 206 SD 5 xu7 – Peugeot Plus 407 – Peugeot ELX Tu7–Peugeot207 rs – Renault L90 – Renault Pars Tondar – Renault MEGAN iance V5 – Brilliance H320 – Brilliance H33 – Brilliance 1 SE CNG – TIBA – TIBA CN6 – TIBA2 – FiAT Ciena 530 – MVM X33 – MVM X33 NEW v Suzuki Vitara – C5 Mazda 2 – Mazda 3 – Mazda323 – SsANGYyANG LIFAN 620 – LIFAN 820 – Ario S300

and SOREN – Samand EL

san Maxima – Nissan Seranza – Nissan Picap – Nissan yad N1 – N16 – Padra – LIFAN 520i – Peykan CNG

enault pk – Renault 21 – ROA – Proton viera – Pride SABA 132 – Pride 141 – Pride 111 – Nissan 224 – Peykan CNG

ı – Pontiac

Buick

Product Guide



PRODUCT NAME

- MirOil Diesel Engine Oil
- CI-4 15W-40

Volvo FH 480 – Volvo FH 440 – Volvo FH 420 – Volvo FM 440 - Dong Feng kaveh – Dong Feng ALBORZ – Trucker Alvand – Scania Bus – Scania trucker

CAR NAME

Reliable Supply of Sustainable Products

Your supplier should be doing more for you

meet productivity and efficiency challenges

- MirOil Diesel Engine Oil
- CH-4 15W-40

- MirOil Diesel Engine Oil
- CH-4 20W-50

Grander komatsu GD661A- 1 – Dumptruck HD 785 - 5 – Renault Midlum Iveco Starliss – Iveco trucker – Iveco euro – mini Bus chros Hyundai – Bus SC457

Innercity Bus – Irankhodro diesel – Bus megatrans – dumptruck – ACTros 33.31 k – Benz -608 Benz CK 1924 – Benz AXOR 2628 – Benz ACTROS 1844 LS Benz WH 1924 – Benz WH 2624 – Benz AXOR 1843 – inner city 6121 mini Bus Higer

- MirOil Diesel Engine Oil
- CF-4 15W-40

AMICO M512 – AMICO M1929 – AMICO M2631 – Grander komatsu GD705A- 4 – BUS3012 – BUS2612



Miroil ENGINE OIL



SAE Grade ASTM Specification 0W-20 0W-30 5W-30 5W-40 10W-30 10W-40 15W-40 20W-50 Test Method D 445 Viscosity @ 100 °C, cSt 7.5 14.5 14.5 14.5 19 11 11 11 140 130 Viscosity Index 170 170 160 160 150 150 D 2270 200 Flash Point, °C, Min 200 200 200 200 200 200 200 D 92 D 97 -39 -33 -33 -30 -24 -24 Pour Point, °C, Max -39 -30 6 6 6 6 6 D 2896 TBN, mg KOH/g, Min 6 6 6 850 852 875 890 D 1298 Density @ 15 °C, Kg/m³ 850 850 854 860 -20 °C -15 °C -35 °C -30 °C -25 °C -35 °C -30 °C -25 °C D 5293 CCS, cP, Max 6200 6200 9500 6600 6600 7000 7000 7000

GASOLINE ENGINE O 5 SAE 5 W-30 API S N

Gasoline Engine Oil

Advantages

- deposition
- Excellent protection of catalysts Increase of car's life
- Extended oil change intervals
- reduction



MirOil is a Full synthetic lubricant manufactured by the best synthetic base oils and high qualified additives designed for use in the most modern gasoline engine cars that manufactured after 2012.

Excellent engine protection especially against wear and corrosion Maximum engine cleanliness and minimum sludge formation and

Excellent oxidative and thermal stability

Excellent control of oil consumption leading to eco-friendliness and cost





SAE Grade ASTM **Specification** 15W-0W-20 0W-30 5W-30 5W-40 10W-30 10W-40 20W-50 Test Method 40 Viscosity @ 100 °C, cSt 14.5 19 D 445 7.5 11 14.5 11 14.5 11 130 Viscosity Index 170 170 160 160 150 150 140 D 2270 200 200 200 D 92 Flash Point, °C, Min 200 200 200 200 200 -30 -24 -24 D 97 -39 -33 -33 -30 Pour Point, °C, Max -39 D 2896 6 6 6 6 TBN, mg KOH/g, Min 6 6 6 6 Density @ 15 °C, Kg/m³ 850 890 D 1298 850 852 854 860 875 850 -35 °C -30 °C -25 °C -20 °C -15 °C -35 °C -30 °C -25 °C D 5293 CCS, cP, Max 6200 6200 6600 6600 7000 7000 7000 9500

GASOLINI ENGINE O 5 SAE 5W-40

Gasoline Engine Oil

vehicles that manufactured after 2005.

Advantages

- Outstanding oxidative and thermal stability
- Extended engine and oil life
- Improved fuel economy and extended drain intervals
- Excellent low temperature fluidity providing Protection of motors at start-up Excellent wear protection under all conditions
- Maximum engine cleanliness and minimum deposit and sludge build-up Excellent protection of catalysts



MirOil is a supreme performance passenger car motor oil formulated from the finest quality synthetic base oils and state-of-the-art additive technology for all modern vehicles including high performance, turbo-charged, multi valve, direct injection gasoline and diesel engines of passenger cars. This lubricant is recommended for all modern and high performance





		SAE Grade	2	ASTM
Specification	10W-40	15W-40	20W-50	Test Method
Viscosity @ 100 °C, cSt	14.5	14.5	19	D 445
Viscosity Index	150	130	120	D 2270
Flash Point, °C, Min	200	200	200	D 92
Pour Point, °C, Max	-30	-24	-24	D 97
TBN, mg KOH/g, Min	6	6	6	D 2896
Density @ 15 °C, Kg/m ³	860	885	890	D 1298
CCS, cP, Max	-25 °C 7000	-20 °C 7000	-15 °C 9500	D 5293





Advantages

- facilitating extended oil life
- engine parts
- maintenance cost
- thickening







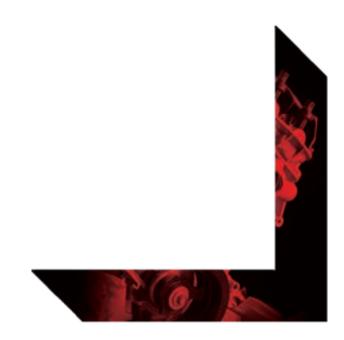
MirOil is an outstanding quality passenger car motor oil developed for modern, high-output, multi valve, turbocharged and supercharged gasoline powered passenger cars and diesel powered light duty vehicles. It's prepared from the best quality additives and the finest base stocks.

Better thermo-oxidative stability minimizes deposits and sludge build-up

Special rust inhibitors retard the formation of rust and corrosion in critical

Active cleaning agents provide engine cleanliness Good antiwear technology minimizes engine wear and reduces

Superior dispersants provide excellent control over soot induced oil





a (f) (f)		SAE Grad	e	ASTM
Specification	10W-40	15W-40	20W-50	Test Method
Viscosity @ 100 °C, cSt	14.5	14.5	19	D 445
Viscosity Index	150	130	120	D 2270
Flash Point, °C, Min	200	200	200	D 92
Pour Point, °C, Max	-30	-24	-24	D 97
TBN, mg KOH/g, Min	6	6	6	D 2896
Density @ 15 °C, Kg/m³	860	885	890	D 1298
CCS, cP, Max	-25 °C 7000	-20 °C 7000	-15 °C 9500	D 5293



Gasoline Engine Oil

Advantages

- Excellent engine cleanliness
- - maintenance cost



MirOil is a premium quality passenger car motor oil formulated by using selected high quality base oils and good performance additives. This lubricant is recommended for modern high performance turbocharged gasoline powered passenger cars and diesel powered light duty vehicles. It may also be used in older vehicles where an API service category SH, SC, SF or commercial category CC quality oil is recommended.

Effective rust and wear inhibitors for protection of critical engine parts Better thermo-oxidative stability minimizes deposits and sludge build-up Advanced antiwear technology minimizes engine wear and reduce

Reliable lubrication even at higher load and operating temperatures





SAE Grade ASTM Specification 15W-40 20W-50 Test Method 10W-40 19 Viscosity @ 100 °C, cSt 14.5 14.5 D 445 150 120 Viscosity Index 130 D 2270 Flash Point, °C, Min 200 200 200 D 92 Pour Point, °C, Max -30 -24 -24 D 97 TBN, mg KOH/g, Min 5 5 5 D 2896 860 890 D 1298 Specific Gravity @ 15 °C, Kg/m³ 885 -25 °C -20 °C -15 °C D 5293 CCS, cP, Max 7000 7000 9500

SAE 20W-50

Gasoline Engine Oil

quality oil is recommended.

Advantages

- Excellent engine cleanliness.
- costs.





MirOil is a high quality passenger car motor oil designed for older turbocharged and naturally aspirated gasoline powered passenger cars and diesel powered light duty vehicles. It is blended using selected premium quality base oils and performance additives.

This lubricant is recommended for use in gasoline powered passenger cars and diesel powered light duty vehicles. It may also be used in older vehicles where an API service category SF or commercial category CC-

Effective rust inhibitors retard formation of rust in critical engine parts.

Better thermo-oxidative stability minimizes deposits & sludge build-up. Better antiwear technology minimizes engine wear to reduce maintenance

Reliable lubrication even at higher load and operating temperatures.





o 10		SAE Grade			
Specification	15W-40	20W-50	40	50	Test Method
Viscosity @ 100 °C, cSt	14.5	19	14.5	19	D 445
Viscosity Index	130	120	120	120	D 2270
Flash Point, °C, Min	200	200	220	220	D 92
Pour Point, °C, Max	-24	-24	-9	-9	D 97
TBN, mg KOH/g, Min	4.5	4.5	4.5	4.5	D 2896
Density @ 15 °C, Kg/m ³	885	890	885	890	D 1298
CCS, cP, Max	-20 °C 7000	-15 °C 9500			D 5293



Gasoline Engine Oil

commercial category CC- quality oil.

Advantages

- Excellent engine cleanliness
- costs



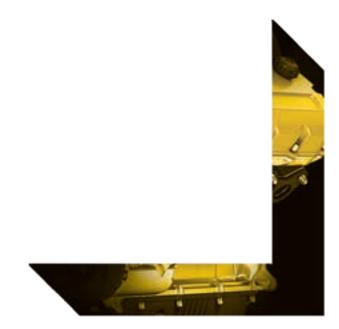




MirOil is a high quality passenger car motor oil formulated by using selected premium quality base oils and effective additives. It is designed for older turbocharged and naturally aspirated gasoline powered passenger cars and diesel powered light duty vehicles and recommended for use in gasoline powered passenger cars and diesel powered light duty vehicles. It may also be used in older vehicles where an API service category SE or

Better thermo-oxidative stability minimizes deposits and sludge build-up Effective rust inhibitors retard formation of rust in critical engine parts

Reliable lubrication even at higher load and operating temperatures. Better antiwear technology minimizes engine wear to reduce maintenance





SAE Grade ASTM **Specification** 20W-50 40 50 **Test Method** Viscosity @ 100 °C, cSt 19 14.5 19 D 445 120 120 120 D 2270 Viscosity Index 200 220 220 D 92 Flash Point, °C, Min Pour Point, °C, Max -24 -9 -9 D 97 TBN, mg KOH/g, Min 4 4 4 D 2896 Density @ 15 °C, Kg/m³ 890 905 905 D 1298





recommended

Advantages

- Improved engine cleanliness
- costs



MirOil is a high quality passenger car motor oil designed for nonturbocharged and naturally aspirated gasoline powered passenger cars and diesel powered light duty vehicles. It is blended by using selected premium quality base oils and performance additives.

It is recommended for use in all modern high performance turbocharged and naturally aspirated gasoline powered passenger cars and diesel powered light duty vehicles. It may also be used in older vehicles where an API service category SF or commercial category CC- quality oil is

Effective rust inhibitors retard formation of rust in critical engine parts

Better thermo-oxidative stability minimizes deposits and sludge build-up Better antiwear technology minimizes engine wear to reduce maintenance

Reliable lubrication even at higher load and operating temperatures.





Specification		SAE Gra	de	ASTM
	20W-50	40	50	Test Method
Viscosity @ 100 °C, cSt	19	14.5	19	D 445
Viscosity Index	120	120	120	D 2270
Flash Point, °C, Min	200	220	220	D 92
Pour Point, °C, Max	-24	-9	-9	D 97
TBN, mg KOH/g, Min	4	4	4	D 2896
Density @ 15 °C, Kg/m ³	890	905	905	D 1298





oils and performance additives.

Advantages

- Improved engine cleanliness
- costs



A high quality passenger car motor oil designed for non-turbocharged and naturally aspirated gasoline powered passenger cars and diesel powered light duty vehicles. It is blended by using selected premium quality base

It may also be used in older vehicles where an API service category SF or commercial category CC- quality oil is recommended

Effective rust inhibitors retard formation of rust in critical engine parts

Better thermo-oxidative stability minimizes deposits and sludge build-up Better antiwear technology minimizes engine wear to reduce maintenance

Reliable lubrication even at higher load and operating temperatures.







FOUR SEASON LUBRICANT

o 161 11		SAE Grade	2	ASTM
Specification	10W-40	15W-40	20W-50	Test Method
Viscosity @ 100 °C, cSt	14.5	14.5	19	D 445
Viscosity Index	150	130	120	D 2270
Flash Point, °C, Min	200	200	200	D 92
Pour Point, °C, Max	-30	-24	-24	D 97
TBN, mg KOH/g, Min	10	10	10	D 2896
Density @ 15 °C, Kg/m³	860	880	885	D 1298
CCS, cP, Max	-25 °C 7000	-20 °C 7000	-15 °C 9500	D 5293



Diesel Engine Oil

MirOil is an extra high performance heavy-duty diesel engine oil specifically developed for use in modern, low emission diesel engines, including those fitted with Exhaust Gas Re-circulation, (EGR) systems. This product meets the latest requirements of all major European, American and Japanese engine manufacturers and guaranties exceptional protection and extended life to diesel engines. It is blended from selected base stocks and new generation performance additives. This lubricant is recommended for turbocharged and naturally aspirated diesel engines used in on-highway applications.

Advantages

- increase and wear and corrosion.
- exhaust gases and extending oil life
- durability.



Excellent soot handling capability protects against soot induced viscosity

Excellent TBN retention helps in countering harmful effects of corrosive

Outstanding thermo-oxidative stability reduces deposits and oil thickening Superior protection against corrosive wear helps in sustaining engine





FOUR SEASON LUBRICANT

		SAE Grade	9	ASTM
Specification	10W-40	15W-40	20W-50	Test Method
Viscosity @ 100 °C, cSt	14.5	14.5	19	D 445
Viscosity Index	150	130	120	D 2270
Flash Point, °C, Min	200	200	200	D 92
Pour Point, °C, Max	-30	-24	-24	D 97
TBN, mg KOH/g, Min	10	10	10	D 2896
Density @ 15 °C, Kg/m³	860	880	885	D 1298
CCS, cP, Max	-25 °C 7000	-20 °C 7000	-15 °C 9500	D 5293



Diesel Engine Oil

and other off highway applications

Advantages

- extend engine life and reduce maintenance costs
- engine life.



MirOil is an extra high performance diesel engine oil that provides superior performance and long service potential in high output, high-speed turbocharged diesel engines operating under severe conditions and naturally aspirated low emission diesel engines of major European and American engine manufacturers. It is blended from highly refined base stocks and carefully selected additives. It meets the requirements of major European heavy-duty diesel engine manufacturers.

This lubricant is recommended for highway light and heavy duty trucking including high speed-high load service and short haul pick-up/delivery van heavy duty diesel engines used in mining, construction, agriculture

Exceptional antiwear properties protects critical engine components to

Excellent thermo-oxidative stability controls deposits and viscosity increase Advanced detergency enhances engine cleanliness to provide extended

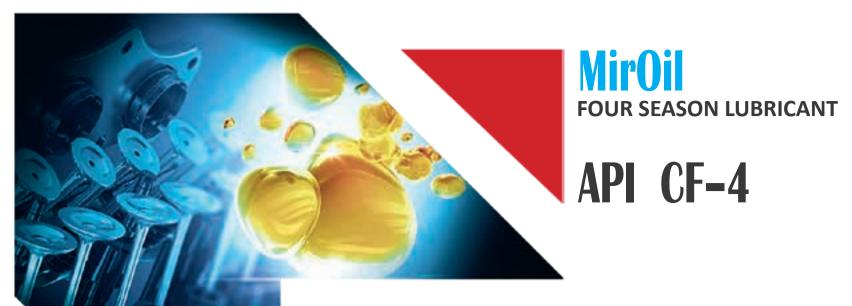




FOUR SEASON LUBRICANT

o 10		SAE Grade	e	ASTM
Specification	10W-40	15W-40	20W-50	Test Method
Viscosity @ 100 °C, cSt	14.5	14.5	19	D 445
Viscosity Index	130	130	120	D 2270
Flash Point, °C, Min	200	200	200	D 92
Pour Point, °C, Max	-30	-24	-24	D 97
TBN, mg KOH/g, Min	8	8	8	D 2896
Density @ 15 °C, Kg/m³	860	885	890	D 1298
CCS, cP, Max	-25 °C 7000	-20 °C 7000	-15 °C 9500	D 5293





Diesel Engine Oil

stocks and balanced additives industry.

Advantages

- and oil degradation

MirOil is a high quality heavy duty diesel engine oil developed for use in Turbocharged, supercharged and naturally aspirated diesel engines of all leading engine manufacturers. It is formulated from highly refined base

This product is recommended for use in wide range of on and off-highway including light and heavy duty applications such as mining, construction, agriculture. SAE low is suitable for use in various heavy duty Dumpers, Dozers, Excavators, Tippers and Cranes used in construction and mining

Effective antiwear properties protects engine components against wear to offer extended engine life and reduced maintenance costs Improved detergency helps reduce deposits and keeps engines cleaner Good corrosion inhibition properties protects against corrosion and wear Better thermo-oxidative stability protects against sludge build-up, deposits





FOUR SEASON LUBRICANT

		SAE Grade		
Specification	20W-50	50	40	Test Method
Viscosity @ 100 °C, cSt	19	19	14.5	D 445
Viscosity Index	120	120	120	D 2270
Flash Point, °C, Min	200	220	220	D 92
Pour Point, °C, Max	-24	-9	-9	D 97
TBN, mg KOH/g, Min	5	5	5	D 2896
Density @ 15 °C, Kg/m³	890	895	890	D 1298
CCS, cP, Max	-15 °C 9500			D 5293





Diesel Engine Oil

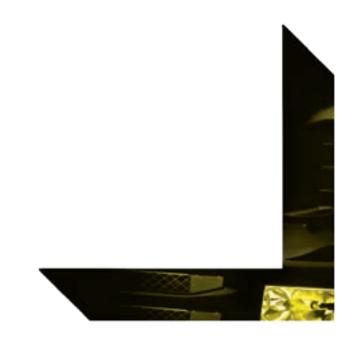
industry.

Advantages

- and oil degradation

MirOil is a high quality heavy duty diesel engine oil developed for use in supercharged four stroke dieselengines of all leading engine manufacturers. It is formulated from highly refined base stocks and selected additives. This lubricant is recommended for use in wide range of on and off-highway including light and heavy duty applications such as mining, construction, agriculture. SAE IOW is suitable for use in various heavy duty Dumpers, Dozers, Excavators, Tippers and Cranes used in construction and mining

Effective antiwear properties protects engine components against wear to offer extended engine life and reduced maintenance costs Improved detergency helps reduce deposits and keeps engines cleaner Better thermo-oxidative stability protects against sludge build-up, deposits





MirOil MOTORCYCLE OIL

FOUR SEASON LUBRICANT

	SAE Grade	ASTM	
Specification	10W-40	Test Method	
Viscosity @ 100 °C, cSt	14.5	D 445	
Viscosity Index	152	D 2270	
Flash Point, °C, Min	210	D 92	
Pour Point, °C, Max	-33	D 97	
TBN, mg KOH/g	7	D 2896	
Density @ 15 °C, Kg/m³	874	D 1298	

SAE 10W-40

API SL JASO MA2



motorcycles.

Advantages

- shudder







MirOil is a semi synthetic, 4-stroke gasoline engine oil developed specifically to meet the special requirements of latest high performance air cooled 4-stroke motorcycles. It is blended from high quality synthetic base oils and performance additives to provide protection of engine, gear box and wet clutch against wear and recommended for use in modern 4-stroke

outstanding lubrication and easy starting even at operating temperatures Excellent thermo-oxidative stability minimizes deposits and sludge build-up Excellent rust and wear inhibitors for protection of engine Controlled frictional properties, smooth shift performance, prevention



MirOil MOTORCYCLE OIL

FOUR SEASON LUBRICANT

	SAE Grade	ASTM	
Specification	20W-50	Test Method	
Viscosity @ 100 °C, cSt	19	D 445	
Viscosity Index	128	D 2270	
Flash Point, °C, Min	210	D 92	
Pour Point, °C, Max	-24	D 97	
TBN, mg KOH/g, Min	7	D 2896	
Density @ 15 °C, Kg/m³	893	D 1298	

SAE 10W-40

API SL JASO MA2



Advantages

- shudder





MirOil is a high quality 4-stroke gasoline engine oil developed specifically to meet the special requirements of air cooled 4-stroke motorcycles. It is blended from highly refined base oils and effective additives to provide protection of engine's critical parts and wet clutch. This product is recommended for use in new motorcycle and older one.

Better thermo-oxidative stability minimizes deposits and sludge build-up Effective wear inhibitors for protection of engine Controlled frictional properties, smooth shift performance, prevention

Reliable lubrication and easy starting even at operating temperatures





MirOil OUTBOARD

OUTBOARD OIL

Specification	Typical Value	ASTM Test Method
Viscosity @ 100 °C, cSt	8	D 445
Viscosity Index	135	D 2270
Flash Point, °C, Min	90	D 92
Pour Point, °C, Max	-33	D 97
TBN, mg KOH/g, Min	6	D 2896
Density @ 15 °C, Kg/m³	868	D 1298



2-Stroke Motorcycle Oil

requirements including JASO FC and API TC. cooled outboard engines.

Advantages

- ensuring cleaner engines
- fouling and pre-ignition
- environment
- ambient temperatures



MirOil is a high performance, ash-less, 2-cycle engine oil developed to meet the most critical requirements of modern water cooled outboard engines. It is designed for the harsh operating conditions of marine environment and exceeds the stringent performance requirements of the latest National Marine Manufacturers Association's specification and also meets the performance

This product is recommended for use in the latest high output 2-Cycle water

The latest additive technology helps in protecting the piston from scuffing

The special ash-less detergents protect against piston ring sticking, spark plug

Special rust and corrosion inhibitors guard even in marine salt water

Ensures easy mixing and forms stable mixtures with gasoline even at low

Different designs of gears and their operating and tribological parameters demands a carefully formulated lubricant

MIROII GEAR OIL



MirOil ATF DEXRON-VI

AUTOMATIC TRANSMISSION FLUID

Specification	Typical Value	ASTM Test Method
Viscosity @ 100 °C, cSt	6	D 445
Viscosity Index	153	D 2270
Flash Point, °C, Min	220	D 92
Pour Point, °C, Max	-51	D 97
Brookfield Viscosity @ -40 °C, cP	11500	D 2983
Density @ 15 °C, Kg/m³	841	D 1298

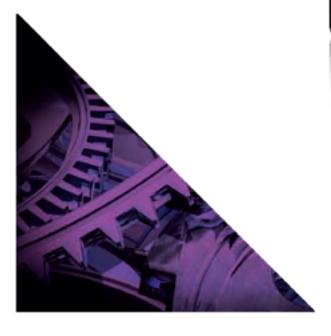


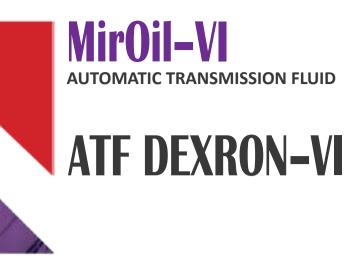
Automatic Transmission Fluid

II and Dexron-III is been required.

Advantages

- Excellent thermal and oxidation stability
- Special friction modifiers
- temperatures
- possibility





MirOil-VI is a high quality automatic transmission fluid(ATF) based on 100% synthetic base stocks in combination with a unique additive package designed for all General Motors and Ford automatic transmissions requiring DEXRONE-VI. This superior fluid is recommended for use in modern automatic transmission, torque convertors and power-steering of passenger car, light vans and commercial vehicles where a GM Dexron VI specification is required. MirOil-VI is backwards compatible where Dexron

Very high viscosity Index, excellent performance at very low and high

Excellent seal compatibility, longer seal life, reduction of oil leakage

Excellent protection against the forming corrosion, foam and wear





MirOil ATF DEXRON-III

AUTOMATIC TRANSMISSION FLUID

Specification	Typical Value	ASTM Test Method	
Viscosity @ 100 °C, cSt	8	D 445	
Viscosity Index	180	D 2270	
Flash Point, °C, Min	190	D 92	
Pour Point, °C, Max	-46	D 97	
Brookfield Viscosity @ -40 °C, cP	17500	D 2983	
Density @ 15 °C, Kg/m³	841	D 1298	



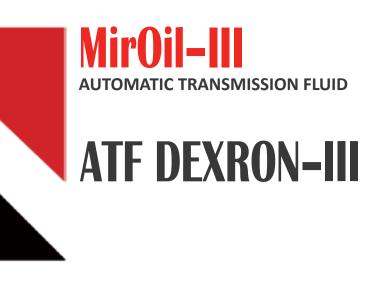


Advantages

- base oils
- shudder
- circuits

- possibility





MirOil-III is an extra high performance automatic transmission fluid (ATF), designed for all General Motors and Ford automatic transmissions requiring DEXRONE-III. It is recommended for imported cars like Audi, Honda, Mazda, Nissan, Opel, Renault, Toyota and Volkswagen.

Formulated from modern additive technology and specially selected

Superior thermo-oxidative stability, longer fluid life Controlled frictional properties, smooth shift performance, prevention

Adequate lubrication in high operating, easy pumping in the hydraulic

Excellent protection against rust, corrosion and wear. Excellent seal compatibility, longer seal life, reduction of oil leakage





MirOil ATF DEXRON-II

AUTOMATIC TRANSMISSION FLUID

Specification	Typical Value	ASTM Test Method
Viscosity @ 100 °C, cSt	7.2	D 445
Viscosity Index	162	D 2270
Flash Point, °C, Min	172	D 92
Pour Point, °C, Max	-42	D 97
Brookfield Viscosity @ -40 °C, cP	40750	D 2983
Density @ 15 °C, Kg/m³	861	D 1298





MirOil API GL-5 **TRANSMISSION FLUID**

		SAE Grade		
Specification	75W-80	80W-90	85W-140	Test Method
Viscosity @ 100 °C, cSt	8.5	16	28	D 445
Viscosity Index	145	101	97	D 2270
Flash Point, °C, Min	170	200	210	D 92
Pour Point, °C, Max	-39	-27	-18	D 97
Density @ 15 °C, Kg/m ³	830	894	901	D 1298



Transmission Fluid

agriculture

Advantages

- additives
- Good Extreme Pressure and Antiwear
- High oxidation stability facilitating longer gear and bearing life
- Effective rust and corrosion protection





MirOil-GL 5 is an excellent performance gear lubricant designed to provide excellent lubrication under severe conditions like high speed/ shock load, high speed/low torque and/or low speed, high torque in a wide range of Manual automotive transmissions, axles and final drive. It's recommended for on-road passenger cars, light and heavy duty trucks, buses and vans, and off-highway equipment in construction, mining and

Formulated from high quality base stocks and balanced extreme pressure

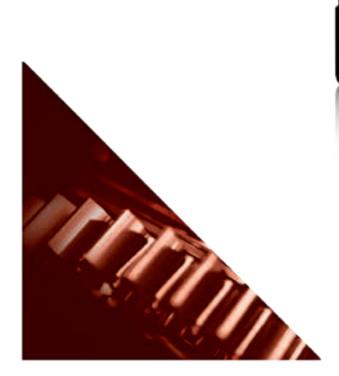
- Good anti-foam properties ensure film strength for effective lubrication
- Excellent seal compatibility lead to minimize leakages





MirOil API GL-4 **TRANSMISSION FLUID**

SAE Grade ASTM Specification Test Method 75W 85W-90 80W Viscosity @ 100 °C, cSt 4.2 16 7 D 445 100 95 D 2270 Viscosity Index 90 Flash Point, °C, Min 160 200 190 D 92 Pour Point, °C, Max -39 -18 -27 D 97 880 D 1298 Density @ 15 °C, Kg/m³ 865 905







Advantages

- additives
- Good extreme pressure and antiwear
- Effective rust and corrosion protection
- Excellent seal compatibility lead to minimize leakages



MirOil-GL 4 is a high performance gear lubricant designed to provide effective lubrication in a wide range of automotive transmissions and axle drives. It's recommended for manual transmissions and transaxles, on-road passenger cars, light and heavy duty trucks, buses and vans, off-highway equipment in construction, mining and agriculture

Formulated from high quality base stocks and balanced extreme pressure

High oxidation stability facilitating longer gear and bearing life Good anti-foam properties ensure film strength for effective lubrication





MirOil API GL-1 **TRANSMISSION FLUID**

		SAE Grade		
Specification	90	110	140	Test Method
Viscosity @ 100 °C, cSt	16	21	28	D 445
Viscosity Index	100	100	100	D 2270
Flash Point, °C, Min	200	206	210	D 92
Pour Point, °C, Max	-9	-9	-6	D 97
Density @ 15 °C, Kg/m³	885	890	890	D 1298





MirOil–GL 1 is a good performance gear lubricant designed to provide effective lubrication in a wide range of spiral-bevel, worm gears and manual automotive transmissions and axle drive like light and heavy duty trucks, buses and vans, off-highway equipment in construction, mining and agriculture under moderate condition.

 Formulated from high quality base stocks and additives
 High oxidation stability facilitating longer gear and bearing life Suitable anti-foam properties ensure film strength for effective lubrication Excellent seal compatibility lead to minimize leakages



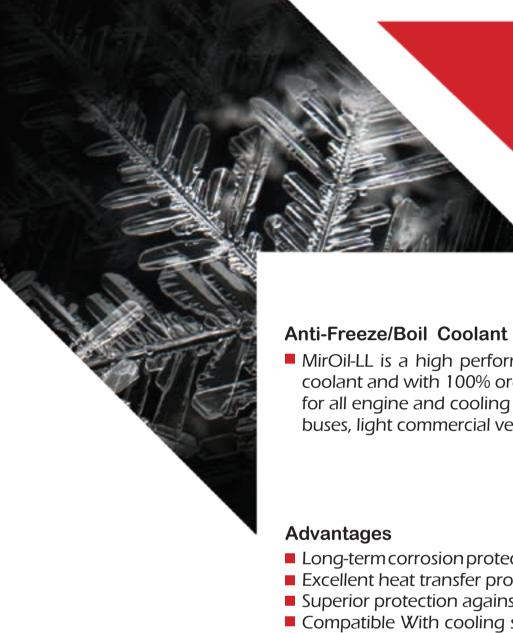




MirOil COOLANT ANTIFREEZE

Specification	Typical Value	ASTM Test Method
Density, kg/m³	1.122	D 1122
Freezing Point, 50% Aqu, °C, Max	-36.5	D 1177
Boiling Point, 50% Aqu, °C, Min	108	D 1120
pH 50% Aqu	7.5 - 11	D 1287
Reserved Alkalinity Origin, ml	25	D 1121





- Excellent heat transfer properties
- Superior protection against corrosion
- hoses Or gasket







MirOil-LL is a high performance, environment friendly long life radiator coolant and with 100% organic corrosion inhibitor additive. It is designed for all engine and cooling system components like heavy duty trucks and buses, light commercial vehicles, passenger cars and utility vehicles.

Long-term corrosion protection under all weather and operating conditions Compatible With cooling system filters, rubber O-ring, water pump seals,





MirOil COOLANT ANTIFREEZE

Specification	Typical Value	ASTM Test Method
Density, kg/m³	1.125	D 1122
Freezing Point, 50% Aqu, °C, Max	-36.5	D 1177
Boiling Point, 50% Aqu, °C, Min	108	D 1120
pH 50% Aqu	7.5 - 11	D 1287
Reserved Alkalinity Origin, ml, Max	25	D 1121





Advantages

- Excellent heat transfer properties
- Excellent protection against corrosion
- hoses or gasket







MirOil COOLANT is a high performance, environment friendly radiator coolant and corrosion inhibitor additive. It is designed for all engine and cooling system components like heavy duty trucks and buses, light commercial vehicles, passenger cars and utility vehicles.

Outstanding performance under all weather and operating conditions Compatible With cooling system filters, rubber O-ring, water pump seals,





MirOil RADIATOR COOLANT

SUPER LONG LIFE FLUID





RADIATOR COOLANT

reduce the freezing point.







MirOil-RADIATOR COOLANT is a long life radiator coolant fluid formulated by a mixture of distilled water and effective additives to prevent deposit formation. It also protects the critical metal from corrosion and rust and





MirOil WINDSHIELD CLEANER

WINDSHIELD SOLUTION







Cleaner Solution

absolutely safe to use for paint and rubber.

Advantages

- Streak-free shine to any surface
- wipers
- Prevention of fog and steam forming

MirOil WINDSHIELD CLEANER CLEANER SOLUTION

MirOil-Cleaner is a high quality windshield cleaner solution for all type of vehicles. It removes all types of debris and dirt effectively to lend a safe driving experience. This cleaner follows hydrophobic technology allowing the water to roll away in driving. It is a hydrophobic technology and non-toxic solution and made with biodegradable formula which is

Including of Anti-Freezing agent, Applicable in all seasons Without any adverse effect on painted surfaces, pipes, hoses, seals and





Industrial oils : long-service-life application





MirOil-HL MirOil HYDRAULIC FLUID



Specification			
Viscosity @ 40 °C, cSt		15	
Viscosity Index		97	
Flash Point, °C, Min		164	
Pour Point, °C, Max		-24	
Density @ 15 °C, Kg/m ³		858	
Rust Test		Pass	
Emulsion Test	@ 54 °C	Pass	
30 min Max	@ 82 °C	-	
Foam Test		Nil	

Turbine oil stability Test, hrs, Min



Hydraulic Fluid

MirOil–HL is a premium quality multipurpose lubricating oil intended for use in hydraulic systems in industrial and mobile service, compressors, turbines, circulating systems and spur, helical, bevel and worm gearboxes where R and O type of oils are required. This oil is blended from high quality base oils and a proven additive system. This product exceed the performance requirements of DIN 51524 Part1 - HL

Advantages

- Superior thermo-oxidative stability leading to longer service life
- Good water separation
- Special rust and corrosion inhibitors protect critical components even in severe operating conditions
- Effective foam control and rapid air release properties ensure trouble-free operations
- No effect on cupper alloys and reduction of their catalytic property







SAE Grade ASTM Test Method 22 32 46 68 100 150 220 320 460 D 445 22 32 68 100 150 220 320 460 D 2270 97 95 100 95 D 92 280 186 218 230 246 266 D 97 -15 -6 -3 -12 D 1298 881 898 902 894 D 665A/B Pass Pass Pass Pass Pass Pass D 1401 Pass Pass Pass Pass D 892 Nil Nil Nil 1000 1500 1000 D 943

MirOil-HH MirOil HYDRAULIC FLUID

Hydraulic Fluid

MirOil-HH is a premium quality multipurpose lubricating oils intended for use in hydraulic systems in industrial and mobile service, compressors, turbines, circulating systems and spur, helical, bevel and worm gearboxes where R&O type of oils are required. This oil is blended from high quality base oils and a proven additive system and exceed the performance requirements of DIN 51524 Part 1-HH.

Advantages

- Good water separation
- Special rust and corrosion inhibitors protect critical components
- Effective foam control and rapid air release properties ensure trouble-free
- operations

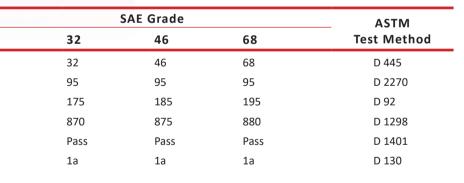
No effect on cupper alloys and reduction of their catalytic property

Specification 22 Viscosity @ 40 °C, cSt 22 100 Viscosity Index Flash Point, °C, Min 165 Density @ 15 °C, Kg/m³ 865 Demolsibility Pass Copper Corrosion @ 100 °C, Max 1a









MirOil AVIATION TURBINE OIL

Aviation Turbine Oil

MirOil is a high quality aviation turbine oil formulated from high performance synthetic hindered ester base oil and effective ash-less additives. This product is ideal for the wide temperature ranges encountered between cold outside air and hot turbine systems and recommended for lubrication

of aircraft-type gas turbine engines used in industrial or marine applications. It meets the specifications of MIL-PRF-23699 Grade TS, NATO Code Number 0-156 and Detence Standard 91-101.

Advantages

- Excellent oxidative and thermal stability to keep viscosity and acid number leading to lowers oil consumption
- Provide excellent load carrying to sustain bearing and gear required operating lives.
- Excellent resistance to foaming, wear and corrosion.
- Excellent lubricity, Anti-wear and Extreme Pressure properties
- Good biodegradability
- Operate in low and high temperature environments.

Specification

Viscosity, @ 40 °C, cSt Viscosity, @ 100 °C, cSt Viscosity, @ -40 °C, cP Foam Characteristics Total Acid Number, mg KOH/g Pour Point, °C, Max Flash Point, °C, Min Evaporation Loss, 6.5 hrs @ 204 °C









Typical Value	ASTM Test Method
25	D 445
4.9	D 445
7760	D 445
Pass	D 892
0.05	D 664
-63	D 97
250	D 92
3.0	D 972



Turbine Extreme Pressure Oil

MirOil–EP is a supreme performance turbine oils formulated with high quality severely hydro-processed base oils and a proprietary ash-less additive package containing antioxidants, FZG booster, corrosion inhibitors.

These products are specially designed for use in geared and non-geared steam turbines, gas turbines and combined cycle gas turbines (CCGT), large heavy-duty industrial gas turbines, power generation and industrial steam turbines, power generation gas turbines and turbo compressors. These lubricants are available in in four ISO viscosity grades 32, 46, 68 and 100 and can meet requirements of BS 489, GEK 46506D, DIN 51515(part 1 & part 2) and ASTM D 4303, Type 1(Non-EP) and Type 2(EP)

Advantages

- Superior anti-wear property and load carrying capability provide excellent protection for geared turbines
- Outstanding thermal and oxidation stability prevents sludge formation
- Excellent water separation capability leads to easy removal of excess water
- Excellent rust and corrosion inhibitors provide long term protection to critical system components
- Good air release properties and foam control avoid erratic operation and pump
- cavitation

Specification

Viscosity @ 40 °C, cSt	
Viscosity Index	
Flash Point, °C	
Pour Point, °C	
Density @ 15 °C, Kg/m ³	
Rust Test	
Copper Corrosion	
	@ 54 °C
Water Separability	@ 82 °C
Foam Test, Foam After 10 Minutes Of Settling For All Sequences. Air Release, Minutes	
FZG A/8.3/90, Stage, Min	
Turbine Oil Stability Test, Min	

RBOT, Minutes, Min





84

ISO Viscosity Grade			- Toot Mathed	
32	46	68	100	Test Method
32	46	68	100	ASTM D 445
100	100	100	100	ASTM D 2270
212	220	236	244	ASTM D 92
-30	-30	-27	-24	ASTM D 97
852	855	858	859	ASTM D 1298
Pass	Pass	Pass	Pass	ASTM D 665 A/B
1a	1a	1a	1a	ASTM D 130
Pass	Pass	Pass	Pass	
			Pass	ASTM D 1401
Nil	Nil	Nil	Nil	ASTM D 892
2	3	4	4	ASTM D 3427
8	8	8	8	DIN 51354, Part II
10,000	10,000	10,000	10,000	ASTM D 943
1,000	1,000	1,000	1,000	ASTM D 2272

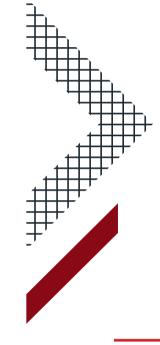


MirOil TURBINE OIL

Turbine Oil

- MirOil is a premium quality turbine oil especially designed for lubrication requirements of steam turbines in power industry. This oil is formulated with high quality severely hydrocracked base oils and an effective ashless additive package.
- This product is suitable for use in Power generation steam turbines, Industrial steam turbines, water turbines, non-geared gas turbines and Turbo compressors.

This lubricant is available in three ISO viscosity grades 32, 46 and 68 and exceed performance requirements of specifications of major turbine manufacturers. These lubricants can meet requirements of BS 489, GEK 46506D, DIN 51515(part 1) and ASTM D 4303, Type 1 (Non-EP).



Advantages

- Outstanding thermal and oxidation stability prevents sludge formation
- Excellent water separation capability leads to easy removal of excess water from the lubrication system
- Effective rust and corrosion inhibitors provide long term protection to critical system components
- Good air release properties and foam control avoid erratic operation and pump cavitation

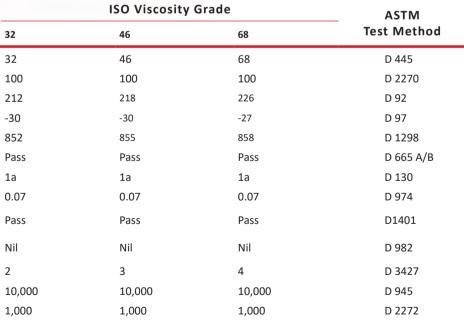
Specification

Viscosity, @ 40 °C, cSt	32
Viscosity Index	100
Flash Point, °C	212
Pour Point, °C	-30
Density @ 15 °C, Kg/m³	852
Rust Test	Pass
Copper Corrosion	1a
Acid Number, mg KOH/g	0.07
Water Separability, Minutes To 3 ml Emulsion @ 54 °C	Pass
Foam Test, Foam After 10 Minutes Of Settling For All Sequences.	Nil
Air Release, Minutes	2
Turbine Oil Stability Test, hrs, Min	10,0
RBOT, Minutes, Min	1,00











MirOil–NH₃ **MirOil Refrigeration Compressor Oil**

Refrigeration Compressor Oil

■ MirOil-NH₃ Refrigeration Compressor oil(for AMMONIA) is high performance fully synthetic refrigeration compressor oil formulated by PloyAlphaOlefin(PAO) base oil specially designed to meet the stringent requirements of major refrigeration compressor Manufacturers. This oil exceed the performance requirements of DIN 51503 KAA, and is suitable for Ammonia (R-717, NH3) refrigeration systems where evaporator temperatures are greater than -45°C, Manufacturing industries that require very low temperature control such as pharmaceuticals and Large commercial operation such as cold stores, marine systems and food processing plants.



	ISO Viscosity Grade				ASTM
Specification	32	46	68	100	Test Method
Viscosity @ 40 °C, cSt	32	46	68	100	D 445
Viscosity Index	138	139	137	140	D 2270
Flash Point, °C, Min	246	260	266	270	D 92
Pour Point, °C, Max	-57	-48	-48	-45	D 97
Density @ 15 °C, Kg/m³	827	833	835	850	D 1298
Conradson Carbon Residue(CCR), m%, Max	0.01	0.01	0.01	0.01	D 189
Rust Test	Pass	Pass	Pass	Pass	D 665 A/B
Copper Corrosion, 1hr @ 100 °C,	1a	1a	1a	1a	D 130
Total Acid Number, mg KOH/g	0.01	0.01	0.01	0.01	D 974

Advantages

- Excellent compatibility with Buna-N rings, which do not shrink when in contact with the oil.
- Lower solubility in Ammonia refrigerant, better lubricating and wear reducing.
- Superior thermal and oxidation stability reducing maintenance costs.
- Completely wax free, excellent operation at low evaporator temperatures.





MirOil-CFC MirOil Refrigeration Compressor Oil

Refrigeration Compressor Oil

MirOil–CFC Refrigeration Compressor is a high performance fully synthetic refrigeration compressor oil formulated with polyol Ester base.

This product specially designed to meet the stringent requirements of most modern refrigeration and air conditioning systems that is filled with the new ozone friendly refrigerant and exceeds the requirements of DIN 51503 KD and ISO 6743-32003 L-DRD, L-DRE, L-DRF and L-DRG. It is suitable for use in Mobile air conditioning, domestic refrigeration, residential and commercial heat pump, commercial refrigeration including transport refrigeration, Industrial refrigeration and also recommended for Marine refrigeration applications, line food freezing and cold storage plants.



- Excellent wear and rust protection results in reduced maintenance costs and longer equipment life
- Completely wax free and lower pour point prevents blockage and ensures smooth operation.
- Readily biodegradable and can be disposed off through conventional methods
- Compatible with elastomers commonly used in the refrigeration system compatible with Carbon dioxide, HFC, CFC/HCFC and HC type refrigeration gases
- Excellent thermo-oxidative stability



Specification	22
Viscosity @ 40 °C, cSt	22
Specific Gravity @ 15 °C, Kg/m ³	941
Viscosity Index	140
Flash Point, °C, Min	260
Pour Point, °C, Max	-48
Total Acid Number, mg KOH/g	0.05





ISO Viscosity Grade				ASTM	
32	68	100	150	220	Test Method
32	68	100	150	220	D 445
997	968	968	967	964	D 1298
135	130	120	117	112	D 2272
250	256	271	261	254	D 92
-45	-42	-36	-33	-27	D 97
0.05	0.05	0.05	0.05	0.05	D 664



Railroad Lubricant

MirOil series are high performance, zinc-free and chlorine-free locomotive oils specially designed to provide excellent engine cleanliness and oil filter life in the modern railroad diesel locomotive engines being employed in severe service. These oils exceed the performance requirements of Locomotive Maintenance Officers Association (LMOA) Generation 5 and API CF/CF-2, and are available in three viscosity grades; SAE 15W-40, SAE 20W-40, SAE 40.

These products are recommended for use in Railroad diesel locomotive engines, Medium speed two-cycle and four-cycle railroad engines, Marine and stationary engines for power generation or off-shore drilling requiring zinc-free oils

Advantages

- Zinc-free formulation protects silver bearings against corrosion
- Non-chlorinated additive package helps in reducing used oil disposal costs
- Exceptional detergency-dispersancy provides excellent engine Cleanliness
- High thermo-oxidative stability protects against sludge formation
- SAE 20W-40 helps provide reduced oil consumption, fuel economy, longer oil drain intervals and effective lubrication at lower temperatures.

MirOil LOCOMOTIVE OILS

		SAE Grad	ASTM	
Specification	40	20W-40	15W-40	Test Method
Viscosity @ 100 °C, cSt	15.0	15.5	15	D 445
Viscosity Index	100	115	100	D 2270
Flash Point, °C, Min	240	220	220	D 92
Pour Point, °C, Max	-18	-24	-18	D 97
TBN, mg KOH/g, Min	17	17	17	D 2896
Density @ 15 °C, Kg/m ³	903	895	903	D 1298
Sulphated Ash, %wt	1.96	1.96	1.96	D 874
Zinc, ppm, Max	10	10	10	D 5158







we also can produce your required specification



MirOil-TRANS CLASS II

Transformer Oil

MirOil Trans Class II is a premium uninhibited mineral Transformer (insulating) oil made from a severely hydrotreated wax-free naphthenic oil which is good as a dielectric and coolant. It has very good low temperature fluidity and chemical stability. This high performance oil specially designed for use in transformers, switchgears, circuit breakers, capacitors, automotive ignition coils and other electrical equipment.

Advantages

- Excellent heat transfer
- Excellent thermal and oxidation stability, prevents sludge formation,
- Minimizing of oil degradation, extended service life
- High dielectric strength ensures excellent insulation and quenching of electric arc
- Effective long term protection of critical system components from rust and corrosion

Specification

Flash Point, °C, Min Pour Point, °C, Max

Viscosity @ 40 °C, cSt, Max Viscosity @ -30 °C, cSt

Density, @ 20 °C kg/m³ Breakdown Voltage, KV Before Treatment Breakdown Voltage, KV After Treatment Acid Number, mg KOH/g, Max Interfacisal Tension, mN/m **Corrosive Sulfur** Sulfur, wt% Antioxidant Additive, wt %, Min Water Content, mg/kg Oxidation Stability @ 120 °C, 5000hrs Total Acidity, mg KOH/g Sludge, % DDF @ 90 °C







Typical Value	Test Method
11	ISO 3104
1045	ISO 3104
130	ISO 2719
-45	ISO 3106
881	ISO 12185
59	IEC 60156
84	IEC 60156
0.01	IEC 62021-1
50	D 971
Noncorrosive	IEC 62535
0.005	ISO 14596
0.3	IEC 60666
10	IEC 60814
	IEC 61125, C
0.04	
0.02	
0.005	



MirOil-TRANS CLASS I

Transformer Oil

MirOil Trans Class I is high performance electrical insulating oil specially designed for use in transformers, switchgears and other electrical equipment. This oil is formulated with high quality severely hydroprocessed naphthenic or paraffinic base oils.

Advantages

- Excellent thermal and oxidation stability prevents sludge formation
- High dielectric strength ensures excellent insulation and quenching of electric arc
- Effective long term protection from rust and corrosion to critical system components
- Heat transfer characteristics with extended service life

Specification

Appearance Viscosity @ 40 °C, cSt Flash Point, °C, Min Pour Point, °C, Max Density, @ 20 °C kg/m³ Neutralization Value, mg KOH/g, Max **Corrosive Sulfur** Water Content, ppm Antioxidant Additive, wt%, Max Oxidation Stability @ 110 °C, 164 hrs Total Acidity, mg KOH/g Sludge% , by mass DDF, @ 90 °C







Typical Value	Test Method	
Clear, Free From Sediment		
11 - 16.5	ISO 3104	
140	ISO 2719	
-30	ISO 3106	
855	ISO 12185	
0.03	IEC 62021-1	
Not Corrosive	IEC 62535	
30	IEC 60814	
0.08	IEC 60666	
	IEC 61125	
1.2		
0.8		

0.005

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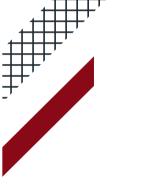
MirOil Metalworking oil

Metalworking Oil

MirOil is an emulsion fluid recommended as a coolant for types of metalworking operations. This high quality soluble oil is usually mixed with specific amount of water. Always this oil is added to water and during that, mixture is stirred.

Advantages

- Excellent anti-rust, anti-foam and anti-corrosion property
- Effective heat removal from metalworking operation
- Formation of stable emulsion
- Non-staining charactristics
- Prevention of chip welding onto the tool



Specification

Appearace Density @ 15 °C, Kg/m³ Viscosity @ 40 °C, cSt







Ο	C)
7	C)

Typical Value	Test Method
Clear	
950 ± 50	D 1298
95 ± 5	AD 445



MirOil SHOCK ABSORBER OIL

Shock Absorber Oil

MirOil is a semi-synthetic high performance lubricating oil designed for Shock Absorbers in automotive cars, motorcycles and all types of vehicles. This high quality product is manufactured by mixture of synthetic and mineral base oil and special additives and is suitable in whole year.

Advantages

- Excellent thermal and oxidation stability, extended Shock Absorber's life
- Effective resistance against rust and corrosion
- Low pour point, excellent fluidity in low temperatures
- Compatible with all kinds of plastic components

Specification

Viscosity @ 40 °C, cSt Viscosity @ 100 °C, cSt Viscosity Index Flash Point, °C, Min Pour Point, °C, Max Density @ 15 °C, Kg/m³





Typical Value	ASTM Test Method
16.5	D 445
4.5	D 445
80	D 2270
150	D 92
-30	D 97
870	D 1298



MirOil-FLUSHING

Flushing Fluid

MirOil-Flushing is a base fluid especially designed to clean the equipments by dissolving varnish build up and solubilize sludge. This product is suitable for flushing of industrial lubrication system (except turbine) and it is recommended to use for flushing after installation and before primary startup or in exchanging used oil



Advantages

- Good oxidative stability
- Excellent cleaning leading to removal of deposits

Specification

Viscosity @ 40 °C, cSt Viscosity Index Flash Point, °C, Min Pour Point, °C, Max Density @ 15 °C, Kg/m³









ASTM **Typical Value** Test Method 12 - 30 D 445 D 2270 80 150 - 190 D 92 D 97 -6 870 D 1298

MirOil-10W MirOil 10W OIL

10W Oil

MirOil-10W is a high performance lubricating oil produced form high quality mineral base oils and suitable additives. This product is suitable in shaft and case of deep well pump, agriculture equipment and other simple usual lubrications.



- Good wear production
- Good cleanliness

- Effective dispersion property
- Suitable heat transfer

Specification

Viscosity @ 100 °C, cSt Viscosity Index Flash Point, °C, Min Pour Point, °C, Max TBN, mg KOH/g, Min Density @ 15 °C, Kg/m³



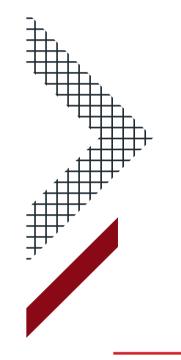


SAE Grade	ASTM
10W	Test Method
5	D 445
85	D 2270
195	D 92
-30	D 97
2	D 2896
880	D 1298

MirOil-DROP MirOil DROP OIL

Drop Oil

MirOil–DROP is a special lubricant manufactured based on a blend of high quality mineral base oils plus suitable additives to provide reliable protection in the recommended applications. This product is suitable in drop lubricating system, shaft and case of deep well's pump, agriculture equipment and other simple usual lubrications.



Advantages

- Good wear production
- Good cleanliness
- Effective dispersion property
- Suitable heat transfer

Specification

Viscosity @ 40 °C, cSt Viscosity Index Flash Point, °C, Min Pour Point, °C, Max Density @ 15 °C, Kg/m³







Typical Value	ASTM Test Method
32	D 445
85	D 2270
180	D 92
-15	D 97
880	D 1298

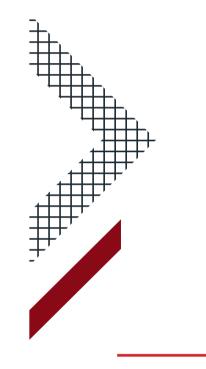
MirOil-SPINDLE

Spindle(Textile) Oil

MirOil-Spindle is a high-performance oil which, due to their powerful additives, guarantee very good wear protection for the lubrication of needles and sinkers in circular and flat knitting machines. Special conditions in the textile industry require the use of high-performance lubricants. In addition to the typical stresses caused by high temperatures, dust, fluff and the strong influence of water, increasing production speeds place increased demands on the lubricant at a high level. MirOil-Spindle meets these requirements.



- Excellent washability from textiles
- Protection of moving parts and extension of service life through excellent wear protection
- Energy saving and reduction of operating temperatures due to excellent friction behavior



	Specification	22
	Viscosity @ 40 °C, cSt	22
	Viscosity Index	85
	Flash Point, °C, Min	180
	Pour Point, °C, Max	-6
	Density @ 15 °C, Kg/m³	865







ISO viscosity Grade				ASTM	
	32	46	68 1	Test Method	
	32	46	68	D 445	
	85	85	85	D 2270	
	200	200	205	D 92	
	-6	-6	-6	D 97	
	870	875	880	D 1298	





MirOil-DISTILLATE FUEL

MirOil-DISTILLATE FUEL



Distillate Fuel

MirOil–Distillate Fuel is one of the high quality products obtained from fractions boiling above the temperature at which gasoline comes off in the distillation of used oils. Distillate fuel is used in on-highway diesel engines as well as off-highway engines this product is used primarily for space heating and electric power generation. The distillation fuel also has a very good exportable quality.

Specification

Density @ 15 °C, Kg/m³ Pour Point, °C, Max Flash Point, °C (Open Cup), Min Flash Point, °C (Closed Cup), Min Color Copper Corrosion @ 100 °C Sulfur, wt % Mercaptan Content, ppm **Boiling Point** I.B.P, °C 5%,°C 10 % , °C 20 % , °C 30 % , °C 40 % , °C 50 % , °C 60 % , °C 70 % , °C 80 % , °C 90 % , °C 95 % , °C F.B..Р , °С **RECOVERY**, VOL% RESIDUE , VOL% LOSS , VOL%

Typical Value	ASTM Test Method
0.825	D 4052
-18	D 97
65	D 92
50	D 93
2	D 1500
2a	D 130
0.5	D 4294
277	D 3227
	D 86
154	
182	
192	
210	
220	
240	
260	
272	
284	
310	
330	
385	
-	
97	

2.8

0.2

MirOil-HYDROCARBON FUEL

MirOil-HYDROCARBON FUEL



Hydrocarbon Fuel

MirOil-Hydrocarbon Fuels are organic compounds made up hydrogen and carbon. These products are combination of components including in diesel and gasoline fuels. Depending on density, hydrocarbon fuels classify into light and heavy.

Also, these hydrocarbons can be considered as one of the middle distillate with a boiling range of 150 to 400 degrees centigrade.

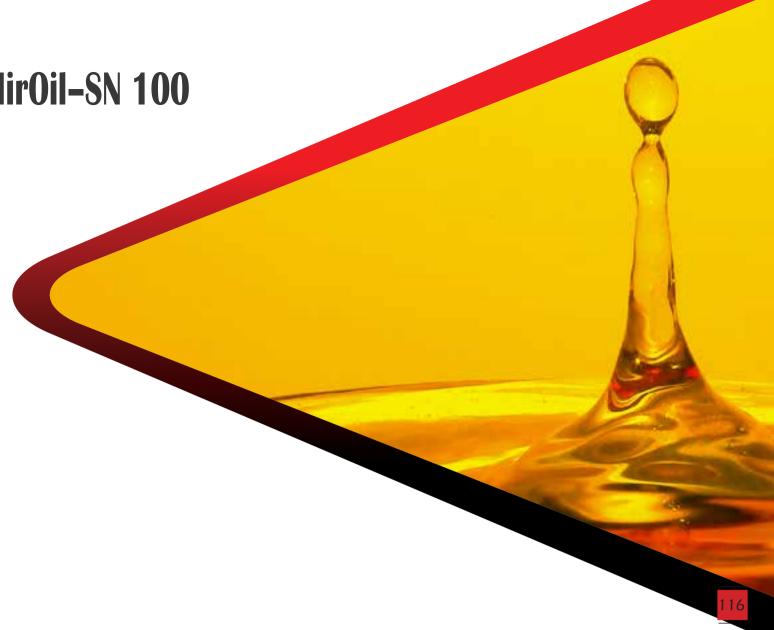
Specification

Density @ 15 °C, Kg/m³ Pour Point, °C, Max Flash Point, °C (Open Cup), Min Flash Point, °C (Closed Cup), Min Color Copper Corrosion @ 100 °C Sulfur, wt % Mercaptan Content, ppm **Boiling Point** I.B.P, °C 5%,°C 10 % , °C 20 % , °C 30 % , °C 40 % , °C 50 % , °C 60 % , °C 70 % , °C 80 % , °C 90 % , °C 95 % , °C F.B..Р , °С RECOVERY, VOL% RESIDUE, VOL% LOSS, VOL%

	Typical Value	ASTM
TN2	TN5	Test Method
0.820	0.816	D 4052
-5	-18	D 97
54	58	D 92
45	49	D 93
2	2	D 1500
1a	1a	D 130
0.25	0.25	D 4294
45	24	D 3227
		D 86
155	160	
161	161	
165	165	
168	168	
170	172	
174	178	
178	184	
188	208	
322	374	
394	392	
408	405	
-	-	
-	-	
92.5	92.5	
7.4	7	
0.1	0.5	

MirOil-SN 100 **BASE OIL**

MirOil-SN 100



Base Oil

MirOil-SN 100 is known as a light grade base oil. This high viscosity index, low sulfur content base oil is mostly used in lubricant and lubricant additives production. It is a Group I base oil which has undergone solvent refining processes. To finish the refining it was hydrogen treated to clear out any impurities.

SN 100 uses as a base oil in Gear oils, Metal working fluids and Hydraulic fluids.

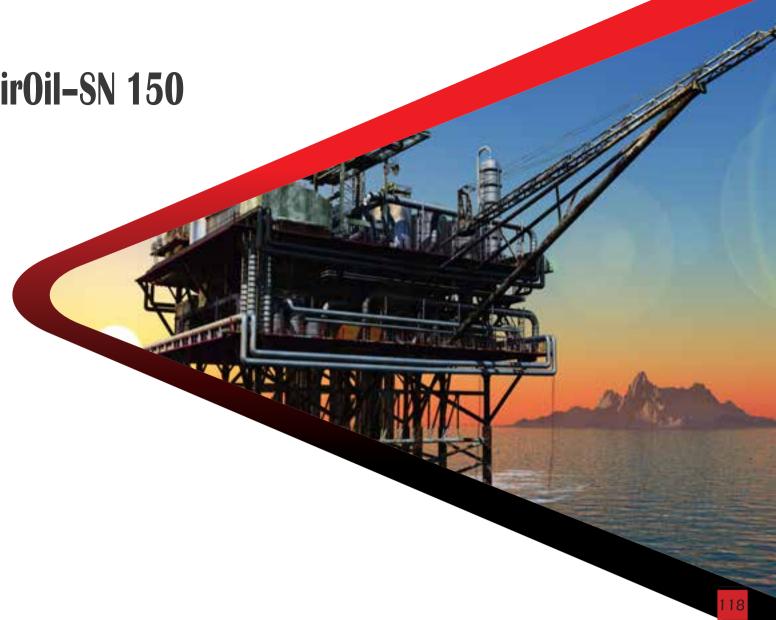
Specification

Viscosity @ 100 °C, cSt Viscosity Index Flash Point, °C, Min Pour Point, °C, Max Density @ 15 °C, Kg/m³ Sulfur, wt % Color

Typical Value	ASTM Test Method
4.2	D 445
90	D 2270
170	D 92
-3	D 97
870	D 1298
0.5	D 4294
2	D 1500

MirOil-SN 150 **BASE OIL**

MirOil-SN 150



Base Oil

■ MirOil–SN 150 is a high quality group I base oil produced from vacuum fractions of crude oil, selectively refined, dewaxed by means of solvents and hydro-refined. This high viscosity index, low sulfur content base oil is the best solvent for additives and uses as a base stock for automotive and several industrial lubricants such as Transmission fluids, Gear oils, Metal working fluids and Hydraulic fluids.

Specification

Viscosity @ 100 °C, cSt Viscosity Index Flash Point, °C, Min Pour Point, °C, Max Density @ 15 °C, Kg/m³ Sulfur, wt % Color

Typical Value	ASTM Test Method
4.5	D 445
90	D 2270
180	D 92
-3	D 97
870	D 1298
0.5	D 4294
2	D 1500

MirOil-SN 350 **BASE OIL**

MirOil-SN 350



Base Oil

MirOil-SN 350 is known as a middle grade base oil. This high viscosity index, low sulfur content base oil is mostly used in lubricant production. It is a Group I base oil which has undergone solvent refining processes. To finish the refining it was hydrogen treated to clear out any impurities. SN 350 has a good lubricity and is suitable as a base oil for formulation of Transmission fluids, Gear oils, Metal working fluids and Hydraulic fluids.

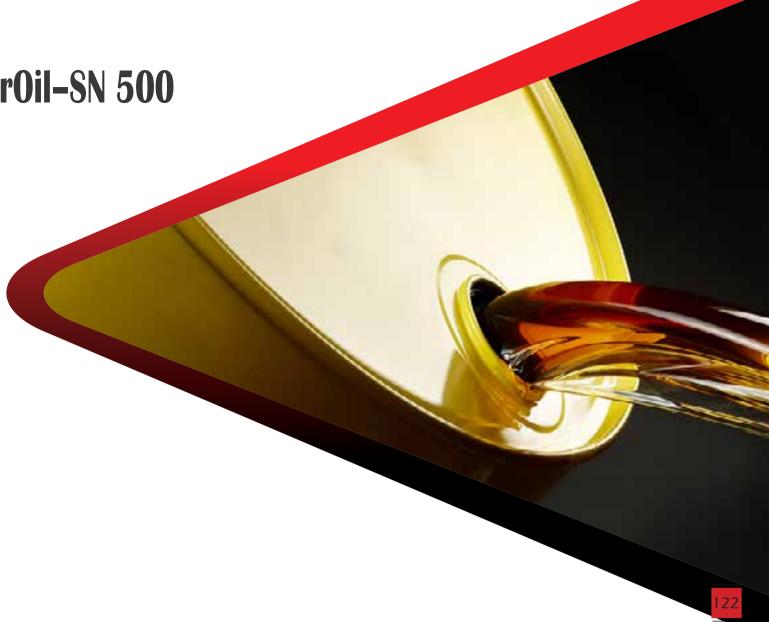
Specification

Viscosity @ 100 °C, cSt Viscosity Index Flash Point, °C, Min Pour Point, °C, Max Density @ 15 °C, Kg/m³ Sulfur, wt% Color

Typical Value	ASTM Test Method
5.5	D 445
90	D 2270
190	D 92
-3	D 97
870	D 1298
0.5	D 4294
2	D 1500

MirOil-SN 500 **BASE OIL**

MirOil-SN 500



Base Oil

MirOil-SN 500 is a high quality Group I base oil manufactured from a solvent dewaxing and hydrofinishing process. The base oil exhibits high viscosity index as well as low content sulfur. It has an excellent viscosityvolatility relationship. It has a good lubricity and is suitable for industrial applications in compressor, hydraulic, and gear formulations.

Specification

Viscosity @100°C, cSt Viscosity Index Flash Point, °C, Min Pour Point, °C, Max Density @ 15 °C, Kg/m³ Sulfur, wt % Color

Typical Value	ASTM Test Method
9.4	D 445
90	D 2270
215	D 92
0	D 97
870	D 1298
0.5	D 4294
2	D 1500

Be Good To Your Bearing
MirOil GREASES

Ensuring That Certain Components Stay Protected

MirOil-Li GREASE

MirOil-Li GREASE



Lithium Grease

MirOil-Li series are multipurpose high quality lithium soap based grease for use in a wide range of heavy duty on-road trucking, automotive applications and other automotive and industrial applications where calcium and sodium based grease are not suitable for use. These water resistant products are manufactured from high quality solvent refined base oils and performance additives and are available in NLGI 1, 2 and 3.

Advantages

- Improved mechanical stability and resistance to softening ensures long lubricant life and prevents leak out of bearings
- Excellent low temperature fluidity/pumpability even in cold weather
- Making it ideal for use in centralized lubrication systems on vehicles as well as industrial applications
- High drop point ensures extended operating range of up to 120°C

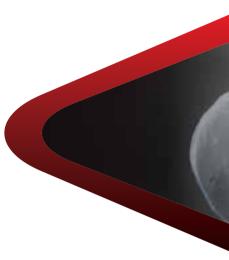
Specification

Colour Texture Consistency, Worked 60X Consistency, Worked 100 000X Dropping Point, °C Oil Separation, Mass % Oxidation Stability (100 hrs) **Copper Corrosion Rust Protection**

Typical Valeu				
NLGI 1	NLGI 2	NLGI 3	ASTM Test Method	
Black	Black	Black	Visual	
Smooth	Smooth	Smooth		
325	280	235	D 217	
15	20	26	D 217	
186	192	194	D 2265	
7	3	1	D 1742	
0.25	0.25	0.25	D 442	
1b	1b	1b	D 4048	
Pass	Pass	Pass	D 1743	

MirOil-Ca GREASE

MirOil-Ca GREASE



Calcium Grease

MirOil- Ca Grease is calcium thickened lubricating grease based on highly refined mineral oils and contains antioxidants, corrosion inhibitors and antiwear additives.

It is a water resistant grease designed for general application such as all types of anti-friction and plain bearings, including those subjected to oscillatory movement through limited angles

Advantages

- Good mechanical stability
- Good corrosion protection
- Excellent adhesiveness

Specification

Colour

NLGI Consistency (National Lubricating Grease In Approximate Density @ 20 °C, kg/m³ Base Oil Viscosity @ 40 °C, cSt

Base Oil Viscosity @ 100 °C, cSt Dropping Point, Min

Mechanical Stability: Penetration 60 Strokes

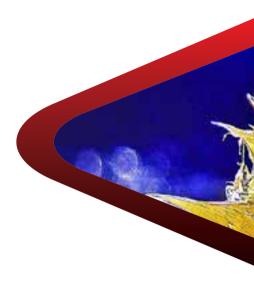
Corrosion Protection: SKF Emcar WWO Distilled Water SKF Emcor WWO Salt Water Copper Corrosion 24 hrs @ 100 °C

Water Stability: Water Resistance Water Washout after 1 hr @ 80 °C, % Anti-Wear Properties: 4-Ball Wear Scar after 60 sec @ 1400 N, mm <image>

		Typical Value		Test Method
	Brown	Brown	Brown	Visual
Institute)	1	2	3	ASTM D 217
	950	950	950	IPPM-CS/03
	110	110	110	ISO 12058
	9	9	9	ISO 12058
	95	95	95	IP 396
	310-340	265-295	220-250	ISO 2137
	0-0 2-2 1b	0-0 2-2 1b	0-0 2-2 1b	ISO 11007 ISO 11007 ASTM D 4048
	1-90 6	1-90 5	1-90 4	DIN 51807-1 ISO 11009
	0.6	0.6	0.6	DIN 51350-5

MirOil-BENTONE GREASE

MirOil-BENTONE GREASE



Bentone grease

MirOil-Bentone grease is a bentone clay thickened lubricating grease based on mineral oil and contains anti-oxidants, corrosion inhibitors, extreme pressure and anti-wear additives. It is a high performance product suitable for both industrial and automotive applications

- Suitable for applications within a very wide temperature range and especially applications at elevated temperatures.
- Good corrosion protection which is important in wet and corrosive environments.
- Excellent load carrying capacity making it suitable for heavily loaded applications

Specification

Colour NLGI Consistency (National Lubricating Grease I Approximate Density @ 20 °C, kg/m³ Base Oil Viscosity @ 40 °C, cSt Base Oil Viscosity @ 100 °C, cSt **Dropping Point** 4-Ball Weld Load Mechanical Stability: Penetration 60 Strokes Penetration 100.000 Strokes Corrosion Protection: Copper Corrosion 24 hrs @ 100 °C **Oil Separation** Separation 168 hrs @ 40 °C, % Oxidation Stability 100 hrs @ 100 °C Flow Pressure @ -35 °C, Max

	Typical Valeu	Test Method
	Brown	Visual
Institute)	2	ASTM D 217
	920	IPPM-CS/03
	475	ISO 12058
	31	ISO 12058
	not applicable	IP 396
	3200 N	DIN 51350-4
	265 - 295 +55	ISO 2137 ISO 2137
	1b	ASTM D 4048
	3	IP 121
	50 kPa	ASTM D 942
	1400 hPa	DIN 51805