# MOTOR OIL CATALOG



## **RACING OIL**

# BRILL

In order to win, putting everything into the strongest racing oil









### With your own mixed oils, you can drive your car any way you like.

Brill oils mixed for different uses are perfect for versatile drivers.

BRILL mixing ratio												
SAE(viscosity) after mixing	·	12.5W-40 準 第 第	0W-20 €	17.5W-50	0W-20 <b>G</b>	20W-60	12.5W-40 <b>⊕</b> 1	回 (名 (2)	12.5W-40	<b>7</b> 0 □	□ 55 35 50 15 80	<b>2</b> 20W-60
2.5W-25	90%	10%	95%	5%	-	_	_		-	-	-	-
5W-25	75%	25%	80%	20%	90%	10%	_		-	-	-	-
5W-30	60%	40%	75%	25%	80%	20%	-		-	-	-	_
7.5W-30	50%	50%	60%	40%	75%	25%	_		-	-	_	_
7.5W-35	30%	70%	50%	50%	65%	35%	_		-	-	-	-
10W-35	25%	75%	45%	55%	60%	40%	_		_	-	_	_
10W-40	10%	90%	35%	65%	55%	45%	_		-	-	-	_
12.5W-45	-	-		_	_	_	65%	35%	85%	15%	-	_
15W-45	_	-		_	40%	60 %	50%	50%	70%	30%	_	_
17.5W-45	_	-		_	_	_	10%	90%	65%	35%	_	_
17.5W-50	-	-		_	25%	75 %	-		50%	50%	85%	15 %
20W-55	_	-		_	10%	90 %	_		20%	80%	55%	45 %

**FULL SYNTHETIC** 

Produced using "ES-TECH", our ester technology. The non-polymer formulation provides outstanding shearing, and in spite of low viscosity, a strong oil film and stable oil flow enable to make a vehicle fully perform in racing use.







Delivery packaging: 1L × 10, 4L × 4, 20L pail

**FULL SYNTHETIC** 

The viscosity has been perfected through our long experience in motor sports. The non-polymer formulation for short range driving provides a stable oil supply. "ES-TECH" protects turbine bearings, and the viscosity has proved perfect in many races including Super GT and Super Endurance.





Delivery packaging: 1L × 10, 4L × 4, 20L pail

The non-polymer "ES-TECH" formulation creates a sufficient oil seal for stable oil supply as well as powerful torque at maximum-speed driving.

Ester base **FULL SYNTHETIC** 

ES-TECH

The highest viscosity grade developed especially for engine types exceeding 1000 HP for Drift or Time Attack Series. By utilizing (ES-TECH)'s ester base and non-polymers formulation for outstanding heat stability and strongest oil film in protecting the high powered engine.



Delivery packaging: 1L×10, 4L×4, 20Lpail

Delivery packaging: 20L pail



Unique technology developed by **SUNDED** "ES-TECH" Ester Technology

This optimized mixture of multiple special oils with improved lubricity consistently protects engine parts. Its improved anti-evaporation properties minimize oil vaporization. "ES-TECH" is advanced technology by applying unique ester formulations of refrigeration oils which SUNOCO has technical advantages for engine oils.

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In order to win, putting everything into the strongest racing oil













RACE FUELS

Full ester FULL SYNTHETIC

LSD

Racing oil

Automotive gear oil developed by fully synthetic ester and non-polymers. Excellent heat resistance and durability. Suitable for FF, 4X4 transaxle and etc.





Delivery packaging: 1L × 10, 20L pail

80W-140



LSD

Racing oil

Automotive gear oil developed by fully synthetic ester and non-polymers. Recommended for the transmission of a mid-engine car. Non-polymer formulation keeps viscosity stable, preventing shearing, and assures that LSD will work properly.





Delivery packaging: 1L × 10, 20L pail

**FULL SYNTHETIC** 



LSD

Racing oil

Automotive gear oil developed by fully synthetic ester and non-polymers. It delivers what is desired of 75W-90 at high temperatures and of 80W-140 at low temperatures. Universal use type recommended for FF, 4X4 transaxle, DEF (Differential Gear) and LSD (Limited Slip Differential).





LSD

Delivery packaging: 1L × 10, 20L pail

SUNOCO's traditional #140. Mineral gear oil giving a smooth feeling with 4X4 transaxle and FR differential gears.





Delivery packaging: 1L × 10, 20Lpail

Ester base SYNTHETIC



LSD

Racing oil

Ester based, non-polymer specifications for exclusive use in motor sports. Gear oil with properties equivalent to 80W-90 that effectively control rising oil temperatures while providing excellent wear resistance. SPG 90 offers excellent antifoaming performance by maintaining gear box lubricity through the instant breakdown of foam.



Delivery packaging: 20L pail

## RACING ATF Ester base FULL SYNTHETIC



Recommended for fans of sporty and maximum-speed driving. Full synthetic formulation provides excellent wear resistance. This fluid is best for speed driving rather than smooth transmission



Delivery packaging: 201 pail

Ester base SYNTHETIC



LSD Racing oil

Ester based, non-polymer specifications for exclusive use in motor sports. Well-suited for high locking percentage LSD gears and dog missions used in drift racing. With properties equivalent to 85W-250, SPG 250 offers excellent lubricity, heat resistance and anti-wear performance.

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Delivery packaging: 20L pail

## **RACE FUELS**

## **SUNOCO GT PLUS**

Oct:110 Color:Light Blue [Unleaded]

Specialty gasoline in which an additive called oxygenated fuel accelerates combustion. It raises the speed and temperature of combustion and produces high power.

## E85-R

**SUNOCO** 

Oct:104 Color:Light Green [Unleaded]

E85-R is an unleaded ethanol race fuel. It cools effectively from the fuel intake system to the combustion chamber, having detonation resistance, and avoiding engine knocks.

SUNOCO GT PLUS, SUNOCO F85-R a special plug setting is necessary because the combustion speedis extremely high. It is a special fuel, so please ask us for details. SUNOCO GT PLUS, SUNOCO E85-R are a special type of gasoline, we will not accept complaints about problems such as engine blow-b

SUNOCO GT PLUS, SUNOCO E85-R are highly dangerous because of their low flash point. Please handle them carefully and be sure to follow the instructions printed on the container. Do not use these fuels for driving on ordinary roads.

Delivery packaging: 20L special pail, 60l drum 200l drum Delivery packaging: 60Ldrum, 208Ldrum

**GASOLINE ENGINE OIL** 



Svelt enhances vehicle performance and maintains top condition





## **GASOLINE · DIESEL ENGINE OIL**

# SVELT Renewal

**EURO** 

Mainly for European vehicles, this oil can also be used for Japanese sports cars or imported vehicles.







Ester formulation

Uses "ES-COMBINATION" ester technology. "ES-COMBINATION" significantly exceeds the requirements of the latest standards API:SP/ILSAC:GF-6A for fuel economy, compatibility with exhaust after-treatment devices, and longevity. Focusing on fuel economy in particular, our proprietary hybrid additive technology delivers outstanding fuel economy performance.







Delivery packaging: 1Lx10, 4Lx4, 20Lpail, 200Ldrum

Ester formulation

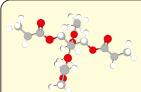
Uses "ES-COMBINATION" ester technology. The emphasis is on engine protection performance while enhancing the engine's fuel economy performance, and greatly improving detergent dispersant performance and anti-wear performance at high temperatures. This highly durable motor oil is ideal for severe conditions.







Delivery packaging: 1Lx10, 4Lx4, 20Lpail, 200Ldrum



## ES-COMBINATION is Sunoco's specialty

achieving responsive engine performance

Hybrid Additive Technology: The friction modifier's chemical structure and blending quantity has been optimized to improve the adsorption of the additive on metal surfaces. As a result, it has succeeded in reducing the friction coefficient in areas with severe lubrication conditions to about half that of regular engine oils.

C3 5W-30 ES-COMBINATION FULL SYNTHETIC 5W-

API: SP	ACEA C3	CF-4			
MB-approval 229.51	BMW LL-04	VW 504/507			
Gasoline engine	Diesel engine	Fuel efficient oil			
European car	ES- COMBINATION				

Full synthetic engine oil approved or conforms to ACEA C3 standard and manufacturers' approvals of European vehicles, and compatible with European gasoline and diesel engine vehicles equipped with GPF and DPF. SVELT EURO C3 5W-30 satisfies requirements for the latest engine oil at high levels such as engine protection, performance for exhaust gas after-treatment devices and long-life performance. The most suitable engine oil to keep the best performance of a vehicle long.



Delivery packaging: 1Lx10, 4Lx4, 20Lpail, 200Ldrum

ES-COMBINATION

Full synthetic engine oil approved or conforms to ACEA A3/B4 standards and manufacturers' approvals of European vehicles. Its gasoline engine vehicles. Also, SVELT EURO 5W-40 has excelresistance, and is the most suit-: aged vehicles. able for European vehicles which have a peculiar symptom of decreasing engine oil.





(0W-16, 0W-20) as it cannot demonstrate the original performance as required by the engine (lower fuel efficiency, response deterioration, etc). Delivery packaging: 1Lx10, 4Lx4, 20Lpail, 200Ldrum Delivery packaging: 1Lx10, 4Lx4, 20Lpail, 200Ldrum

**ES-COMBINATION** FULL SYNTHETIC

CF-4 ES-COMBINATION

Full synthetic engine oil approved or conforms to ACEA A3/B4 standards and manufacturers' approvals of European vehicles. superior performance protecting: SVELT EURO 5W-50 covers in a an engine is the most suitable es-; wide range and protects an pecially for BMW and Mercedes: engine with thicker oil film even short time and distance driving. : Also, this oil is suitable to keep lent performance on vaporization; performance of overrun and/or







## **GASOLINE ENGINE OIL**

## Qualia

Standard oil developed, offering a good balance of price and quality









\*Note: Do not use for DPF(Diesel Particulate Filters) equipped vehicles.



## ENGINE OIL · GEAR OIL · AT · CVT · PS FLUID

## MARVIC

High cost Performance Oil









\*Note:Do not use for DPF(Diesel Particulate Filters) equipped vehicles

Ester formulation

Synthetic oil that uses ES-COMBINATION. Approved by the latest standard, "API:SP/ILSAC:GF-6B" and this oil is ideal for hybrid vehicles and start-stop system vehicles that specify 0W-16. It maximizes fuel economy performance by thoroughly reducing frictional resistance in the engine. This engine oil has outstanding evaporation resistance despite its low viscosity, and is resistant to oil loss even after long periods of use.

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 $\ast$  Suitable for vehicles designated for 0W-16 or 0W-8 engine oils.





Delivery packaging: 4L × 4, 20L pai

Ester formulation SYNTHETIC



Synthetic oil that uses ES-COMBINATION, Suitable for Japanese micro cars, sports cars, turbocharged vehicles, etc., it achieves superior engine protection performance together with stable fuel economy performance. The ideal engine oil for severe conditions, it reliably prevents engine friction and power loss due to excessive heat.





Delivery packaging: 4L × 4, 20L pail, 200L drum

Ester formulation

Synthetic oil that uses ES-COMBINATION. The standard grade approved by the latest standard, "API:SP/IL-SAC:GF-6A". It is suitable for a wide range of vehicle types, from hybrid and start-stop system vehicles to vehicles equipped with direct injection turbo engines. Its anti-wear additives have been carefully selected to produce an outstanding low-friction engine oil.





Delivery packaging: 4L × 4, 20L pail, 200L drum

Ester formulation

Synthetic oil that uses ES-COMBINATION. This oil is ideal

for high mileage vehicles and older vehicles, including those that specify 5W-40. It exhibits a high sealing effect between the piston rings and the cylinders, thereby preventing oil loss through the piston rings and valve guides in cars where the clearance has begun to widen.





Delivery packaging: 4L × 4, 20L pail, 200L drum

Blending synthetic oil with advanced additives enables it to provide both softness at low temperatures and protective performance at high temperatures. This ensures stable performance in any environment. It can be used in a wide variety of vehicles that specify 0W-20 to 10W-30.

Delivery packaging: 20L pail, 200L drum

This gear oil that conforms to the API: GL-5 standard is suitable for both transmissions and differentials. Achieves outstanding shift feel by optimizing friction characteristics.

Delivery packaging: 20L pail, 200L drum

MINERAL

This high-viscosity engine oil is ideal for vehicles

with high mileage and older vehicles. The use

of synthetic oil as the base oil makes it suitable

for a variety of vehicle types and driving envi-

ronments. Its tough oil film enhances the seal-

Delivery packaging: 4L×6, 20L pail, 200L drum

ing effect and minimizes dilution by fuel.

This high-viscosity engine oil is ideal for classic cars. Mineral oil is used as the base oil, in keeping with the era in which these classic cars were born

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Delivery packaging: 20Lpail, 200Ldrum

are subject to high loads.

This gear oil that conforms to the API: GL-5 standard is suitable for both transmissions and differentials. With superior extreme-pressure performance, it provides reliable protection for hypoid gears that

Delivery packaging: 20L pail, 200L drum

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This gear oil that conforms to the API: GL-5 standard is suitable for both transmissions and differentials. This oil has outstanding protection performance for gears and bearings that are subject to heavy loads. and its high-viscosity and high extreme-pressure performance provide reliable protection to transmissions and differentials even in harsh environments.

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Delivery packaging: 20L pail, 200L drum

FULL SYNTHETIC :

The latest ATF (Automatic Transmission Fluid) that conforms to JASO:M315-1A. Carefully selecting full synthetic base oils and additives using the latest technology achieves optimum friction characteristics for a variety of transmissions. This enables precise shift operations and compatibility with lock up clutches.

Delivery packaging: 4L × 4,20L pail, 200Ldrum

## **FULL SYNTHETIC** CVT FLUID SE FULL SYNTHETIC

Next-generation CVT fluid is suitable for most Japanese passenger cars. Compared to OEM oils, it has outstanding friction characteristics between belt and pulley, achieving high torque transmission efficiency. This achieves a sporty driving experience without transmission slippage, even during circuit driving.

MINERAL

DEXRON MERCON V

ATF for vehicles requiring DEXRON II. III. IIIH. or MERCON V. This ATF allows you to enjoy the distinctive feel of

Delivery packaging: 4L×4,20Lpail Delivery packaging: 20Lpail, 200Ldrum Delivery packaging: 20Lpail

## POWER STEERING MINERAL

Provides stable steering during the coldest winters and scorching hot summers. Also recommended for power steering wheels requiring DEXRON.

## **DIESEL ENGINE OIL** IGNITE DIESEL

**Next-generation diesel** engine oil for DPF-equipped vehicles, from passenger cars to heavy-duty vehicles



## BRAKE **FLUID**



## FLUSHING OIL · Air conditioner additive

## others







An engine oil for diesel passenger vehicles that approved by the JASO:DL-1 standard, It excels in the engine cleaning and valve anti-wear properties required for Japanese diesel engines, and its low ash content makes it compatible with DPF. In addition, the use of full synthetic oil achieves high long-drain performance.

Delivery packaging: 20L pail, 200L drum

An engine oil for heavy duty diesel vehicles that approved by JASO: DH-2 standard. It protects the engine without causing oil film shortages, even in recent diesel engines that have increased combustion pressure due to high torque.

Delivery packaging: 20L pail, 200L drum

## **BRAKE FLUID BF-3**



Conforms to JIS-BF3 and FMVSS-DOT3 standards. A glycol based brake fluid, it ensures stable hydraulic pressure during high and low temperature changes and exceeds the standard in high boiling point. Can be used as clutch fluid without corroding the rubber or metal used in the hydraulic parts.

FULL SYNTHETIC

This engine oil for heavy duty diesel vehicles that approved by the latest JASO:DH-2F standard. It has passed the fuel economy performance test required for buses and trucks in recent years. In addition, because it conforms to JASO DL-0, which is equivalent to the conventional API: CF-4 standard, it can be used in non-DPF equipped passenger cars, large buses, and trucks.

Delivery packaging: 20L pail, 200L drum

An engine oil for heavy duty diesel vehicles that approved by JASO: DH-2 standard, It prevents carbon deposit buildup around the pistons of diesel engines under high temperature and pressure. and exhibits a high level of cleaning performance. A high-viscosity oil film improves sealing performance and prevents fuel dilution.

Delivery packaging: 20L pail, 200L drum

### **BRAKE FLUID BF-4**





Developed by technical feedback from motor sports. Exceeding the standard with the high boiling point, it covers the range from low to high temperatures allowing usage from sports speed and street use. Conforms to JIS-BF4 and FMVSS-DOT4 that is widely adopted for Honda vehicles, foreign vehicles and sports cars. Can be used as clutch fluid. Delivery packaging: can(18L)

## CLEAN-UP OIL MINERAL

Developed as a high performance cleaning oil. Any residuals in the engine will cause no problems because of the high quality of the base materials.



Delivery packaging: 20L pail, 200L drum

## AC EFFECTER®

Patent No 4472309

R134a



SUNOCO is the best manufacturer of refrigeration oils for air conditioners and refrigerator compressors, and has an overwhelming global market share. AC EFFECTER greatly improves the lubricity for compressors in car air conditioners, reduces friction loss (power loss), smoothes compressor revolutions, and cuts noise substantially. It makes the air conditioning system highly efficient, raises its cooling capacity, and keeps the inside of the system clean. It solves the problem of hard-starting the air conditioner and improves energy conservation.

- "AC EFFECTER" should be exclusively used for the R134a-PAG.
- "ACEFFECTER" should be exclusively used for car air conditioners, not for room air conditioners The addition of "AC EFFECTER" should be handled only by skilled specialists according to the manu

Delivery packaging: 30ml × 10

## **AC EFFECTER® POE**



Newly developed for hybrid vehicles (excluding some vehicles) and electric compressor mounted vehicles. Refrigeration oil in hybrid and electric compressor mounted vehicles require electrical insulation. The newly formulated special liquid additive "friction modifier" helps fill compressor surface asperities to lower friction loss, resulting in decreased energy consumption, improved air conditioning system durability, and reduced compressor noise/vibration.

- "AC EFFECTER POE" should be exclusively used for the R134a POE. Hybrid vehicles (electric compressor mounted vehicles:Note) use polyol ester(POE) with high electrical insulation properties.
- Use in electrical current carrying refrigeration oil PAG (polyalkylene glycol) may cause short circuit and compressor malfunction. We strongly recommend the
- use of POE additive "AC EFFECTER POE" for vehicles equipped with POE air conditioners. "AC EFFECTER POE" should be exclusively used for car air conditioners, not for room air conditioners.
- · The addition of "AC EFFECTER POE" should be handled only by skilled specialists according to the manuals
- Delivery packaging: 30ml × 10





## From development to manufacture, comprehensive production at our own plant.

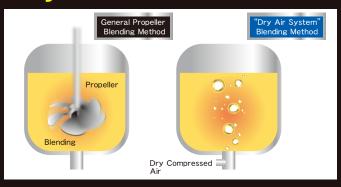
In 1966, Japan Sun Oil Company, Ltd. was established as the Asian base for Sunoco, Inc., founded in Pennsylvania, USA over 1886 years ago. From development through our Technical Center to manufacturing at our facilities, we provide trust-worthy brands of high quality lubricants to a variety of industrial sectors using refrigeration oils, process oils, grinding oils, general purpose industrial oils, specialty oils and automotive oils.

## ISO14001 ISO9001

In order to provide a steady supply of products and services to our customers, Japan Sun Oil Ichikawa Plant and Technical Center has acquired ISO14001 and ISO9001 certification to ensure efficient resource and energy-conservation, to provide a speedy response to environmental problems, and to prevent environmental risks.

## CO's oil-blending method: Dry-air method





Sunoco uses its "dry-air" method in Japan to blend its products by blowing dry-air from the bottom of the blending tank. This method is well suited for refrigeration oils, where impurities are strictly forbidden. In the usual blending method, a propeller is used and lubricants or water may become detached from mechanical parts and mix with the oil. The "dry-air" method minimizes this risk.

### Ichikawa Plant



- · Site Area: About 26,869 square meters
- Base Oil Tank: 26 (12,569 kiloliters)
- Blending Tank: 9 (Max.20 kiloliters / tank)
- Outdoor Product Tank: 4 (224 kiloliters)
- Drum Filling Capacity: 300 drums / hour
- Pail Filling Capacity: 600 pails / hour

Japan Sun Oil Company is an affiliated company of SUNOCO, Inc., U.S.A., and manufactures lubricants in Japan, marketing the products in Japan and other parts of Asia.

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The colors of the products in this catalog may look different from actual colors due to photographing and printing conditions.

When changing oil, please do so at properly equipped sites. Waste oil and empty cans should be disposed of at appropriate sites with the correct facilities, such as our dealerships.

Please direct technical questions about automotive lubricants to our Customer Service Center (OCSS).

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