

***Sunice***

***SUNTAC***

***SUNVIS***

***JSO EP GEAR***

***SOLNUS AC***

***SUNGRIND***

***SUNICUT***

***SUN LUBEWAY***

***SUN WAY LUBRICANT***

***SUN N /JSO N***

***SUNPAR***

***SUNPURE***

***SUNTHENE***

***SUNTHETIC***

***IRM***

## ***Industrial Oils Catalog***

Japan Sun Oil Company,Ltd.  
日本サン石油株式会社





## Integrated production from development to manufacturing at our own factory

Japan Sun Oil Company, Ltd. was established in 1966 as the Asian regional base of Sunoco, Inc. of the United States (founded in 1886 in Pennsylvania). Sunoco brand high quality lubricants are developed and manufactured in the company's own technical laboratory and manufacturing plant.

Our main products are "Refrigeration Oil", "Process Oil", "Grinding Oil", "General Purpose Industrial Lubricants", "Specialty Lubricants", and "Automotive Lubricants", etc. supplying to various industries for various needs.



## ISO14001 ISO9001

Japan Sun Oil Ichikawa Factory and Technical Research Center have acquired the ISO14001 and ISO9001. We are committed to efficient resource and energy conservation, prompt response to environmental issues, prevention of environmental risks and to reliably provide products and services for our customers.



## SUNOCO's Dry Air Blending method

In the oil blending process, dry air method is introduced. This method of stirring by sending dry air from the bottom of the blending tank is used to blend refrigeration machine oil, which has little to no impurities. The possibility of contamination by oil and moisture from mechanical parts, is reduced to as close to zero as possible.

## VG Grade Table

Applications	Classification	Product name	VG grade	Applications	Classification	Product name	VG grade
Refrigeration Oil	Multi-refrigeration refrigeration oil	Sunice HYBRID 32	VG32	Grinding/ Cutting Oils	Non-chlorinated water-insoluble grinding oil	SUNGRIND 600F	VG38
		Sunice HYBRID 46	VG46			SUNGRIND 600FX	VG22
	Refrigeration Oil for HFC Refrigerant	Sunice SL-10S	VG10			SUNGRIND 600FXX	VG12
		Sunice SL-22S	VG22			SUNGRIND 600FXX-M	VG12
		Sunice SL-32S	VG32			SUNGRIND 700	VG38
		Sunice SL-46S	VG46			SUNGRIND 701	VG32
		Sunice SL-68S	VG68		Non-chlorinated cutting oil	SUNICUT 412	VG12
		Sunice SL-100S	VG100	Sliding Surface Oil		SUN LUBEWAY 150	VG32
		Sunice SL-120T	VG120		SUN LUBEWAY 300	VG56	
	Sunice SL-170T	VG170	Dedicated slide ways oils		SUN WAY LUBRICANT 80	VG68	
	Sunice SL-220T	VG220			SUN WAY LUBRICANT 11-80	VG68	
	Sunice SL-320T	VG320	Base Oil		Base Oil	SUN 40N	VG4
	Refrigeration Oil for Cold storage vehicles	Sunice SL-68SP				VG68	SUN 60N
		Refrigeration Oil for HCFC Refrigerant		Sunice 3GSD/3GS		VG32	SUN 100N
	Sunice 4GSD/4GS			VG56		JSO N600	VG120
	Sunice 5GSD/5GS			VG100		SUN 2000N	VG380
	R134a, R1234yf Refrigeration oil for car air conditioner	Sunice P46		VG46		SUN 2400N	VG460
		Sunice AC46		VG46		JSO N5000	VG1000
hydraulic fluid	Anti-leak hydraulic fluid	SUNTAC WR32	VG32	Process oil (rubber processing oil)	Paraffinic process oil	SUNPAR 107	VG12
		SUNTAC WR46	VG46			SUNPAR 110	VG22
		SUNTAC WR68	VG68			SUNPAR 115	VG32
		SUNTAC HP22	VG22			SUNPAR 150	VG100
	Hydraulic oils Industrial grade multi-purpose oils	SUNVIS 932	VG32			SUNPAR 2100	VG180
		SUNVIS 946	VG46			SUNPAR 2280	VG460
		SUNVIS 968	VG68		Aromatic-free process oil	SUNPURE LW70	VG12
		SUNVIS 9100	VG100			SUNPURE P22	VG22
	Abrasion Resistant hydraulic fluid	SUNVIS 832	VG32			SUNPURE P32	VG32
		SUNVIS 846	VG46			SUNPURE P100	VG100
		SUNVIS 868	VG68		Naphthenic process oil	SUNTHENE 410	VG22
	Industrial Gear Oil	Industrial gear oils class2 (extreme pressure)	JSO EP GEAR 150			VG150	SUNTHENE 415
JSO EP GEAR 220			VG220			SUNTHENE 450	VG100
JSO EP GEAR 320			VG320			SUNTHENE 4240	VG460
Air Compressor Oils	Naphthenic Air Compressor Oils	SOLNUS AC 68	VG68	Synthetic process oil for chloroprene rubber	SUNTHETIC B-1500	VG380	
		SOLNUS AC 100	VG100		Standard Oil for Rubber immersion test	IRM 901	—
				IRM 902		—	
						IRM 903	—



## Refrigeration Oil



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### Multi-refrigerant compatible refrigeration oil

## Sunice HYBRID

Features

Sunice HYBRID is a refrigeration oil innovation created by Japan Sun Oil Company, compatible with most refrigerants in use today, including HFC, HFO, and CO<sub>2</sub>.

\*Do not use for ammonia base refrigerants.

Qualities

Lubrication of various types of refrigeration compressors, including chillers, room air conditioners, freezers, showcases, cold storage vehicles, car air conditioners, and vending machines.

Lineup	VG Grade	Packaging
32	VG32	1L × 10, 4L × 6, 20L, 200L
46	VG46	

### Refrigeration Oil for HFC Refrigerant

## Sunice SL

Features

POE refrigeration oil with excellent chemical stability. It has a wide temperature range and excellent hydrolysis stability. For various compressors in refrigerators, freezers, and air conditioners that use HFC/HFO refrigerants.

Qualities

Lubrication for various types of refrigeration compressors, including chillers and air conditioning equipment that use HFC/HFO refrigerants.

Lineup	VG Grade	Lineup	VG Grade	Packaging
SL-10S	VG10	SL-100S	VG100	1L × 10, 4L × 6, 20L, 200L
SL-22S	VG22	SL-120T	VG120	
SL-32S	VG32	SL-170T	VG170	
SL-46S	VG46	SL-220T	VG220	
SL-68S	VG68	SL-320T	VG320	

※100S, 120T, 170T, 220T, 320T are made to order.

### Refrigerant Oil for refrigerator truck

## Sunice SL-68SP

Features

Specially formulated POE refrigeration oil with enhanced extreme pressure properties for use in cold storage vehicles equipped with swash plate compressors.

Qualities

Lubrication for swash plate type compressors for cold storage vehicles using HFC/HFO refrigerant.

Lineup	VG Grade	Packaging
68SP	VG68	1L × 10, 20L

### Refrigeration oil for HCFC refrigerant

## Sunice GS/GSD

Features

Refrigerants using HCFC, HC (hydrocarbon), and ammonia refrigerants. Refrigeration oil for refrigeration and air-conditioning equipment. The GSD series has added defoaming performance. GSD Series is made from carefully selected naphthenic crude oil and refined by hydrogenation to achieve excellent thermo-chemical stability. Recommended oil by manufacturers of refrigeration and air-conditioning equipment.

Qualities

Lubrication for refrigerators, freezers, various types of air conditioning equipment, and refrigeration compressors that use HCFC and HC natural refrigerants.

Lineup	VG Grade	Packaging
3GSD	VG32	4L × 6, 20L, 200L
3GS	VG32	
4GSD	VG56	
4GS	VG56	20L, 200L
5GSD	VG100	
5GS	VG100	

### R134a, R1234yf Refrigeration oil for car air conditioners

## Sunice P46

Features

Refrigeration oil for car air conditioners made from polyalkylene glycol (PAG). It has good compatibility with refrigerants, eliminating oil defects and protecting the surface of the machine.

\*Do not use with vane type compressors or movable compressors (HVs, EVs)

Qualities

Lubrication for swash plate/scroll type compressors. For car air conditioners using R134a and R1234yf.

Lineup	VG Grade	Packaging
46	VG46	1L × 10

### R134a, R1234yf Refrigeration oil for car air conditioners

## Sunice AC46

Features

Sunice AC46 is the latest vehicle air conditioner refrigeration oil packed with the expertise JSO has accumulated in refrigeration oils.

Qualities

It boasts a wide range of applications and can be used with both R134a and R1234yf refrigerants without any concerns.

Lineup	VG Grade	Packaging
46	VG46	1L × 10

Reliable and usable for various devices

## Hydraulic Fluid



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### Anti-leak hydraulic oils

## SUNTAC

#### Features

Premium hydraulic fluid featuring superior wear resistance and leak preventing performance. The base oil suppresses deterioration of sealing materials due to hardening, while the effects of the special additives prevent leakage from pipe joints.

\*HP22: Category 4 petroleum product

Lineup	VG Grade	Packaging
WR32	VG32	20L,200L
WR46	VG46	
WR68	VG68	
HP22	VG22	

#### Qualities

Hydraulic equipment for machine tools and general use.  
WR32 and WR46 are also suitable for use in construction machinery.

### Hydraulic oils/multipurpose industrial oils

## SUNVIS 900

#### Features

General-purpose hydraulic oil with excellent oxidation stability, rust prevention, and defoaming properties. Multipurpose type that can be used for areas other than sliding surfaces.

Lineup	VG Grade	Packaging
932	VG32	20L,200L
946	VG46	
968	VG68	
9100	VG100	

#### Qualities

Hydraulic actuation, bearings, gear (R&O) type, air compressors, bearings for various machine tools, hydraulic equipment, and lubrication of sliding surfaces.

### Abrasion resistant hydraulic oils

## SUNVIS 800

#### Features

Multipurpose type with added wear resistance to the “SUNVIS 900 Series” hydraulic oil, which has excellent corrosion resistance and oxidation stability, and can be used in areas other than sliding surfaces.

Lineup	VG Grade	Packaging
832	VG32	20L,200L
846	VG46	
868	VG68	

#### Qualities

General use hydraulic oil for machine tools, construction machines, etc.  
Usable for both low and high pressure applications.

Excellent load capacity ensures protection from extreme pressure

## Industrial Gear Oil



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### Industrial gear oils class 2(extreme pressure)

## JSO EP GEAR

#### Features

Industrial gear oil for heavy duty use. Mild EP type with excellent extreme pressure, water separation, and oxidation stability.

#### Qualities

Lubrication of heavy duty enclosed gears, bearings and screws.

Lineup	VG Grade	Packaging
150	VG150	20L,200L
220	VG220	
320	VG320	

Carbon suppression effect prevents abnormalities

## Air Compressor Oils



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### Naphthenic air compressor oil

## SOLNUS AC

#### Features

Specially refined naphthenic oil can be used from spindle bearings to compressor lubrication. It is especially suitable for reciprocating air compressors. It is ideal for reciprocating air compressors in particular because there is no carbon deposition.

#### Qualities

For various air compressors

Lineup	VG Grade	Packaging
AC68	VG68	20L,200L
AC100	VG100	

Excellent for heavy-duty grinding processes, low odor and improved working environment

## Grinding / cutting oils



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Non-chlorinated, water insoluble

## SUNGRIND

Lineup	VG Grade	Packaging
600F	VG38	200L
600FX	VG22	20L,200L
600FXX	VG12	200L
600FXX-M	VG12	
700	VG38	
701	VG32	

Features

Water insoluble heavy-duty grinding oil. Contains phosphorus-based extreme pressure agents to reduce corrosiveness to metals and extend machine life. Low odor, contributing to an improving working conditions.

Qualities

Heavy-duty grinding of carbide tools, thread grinding, groove grinding, and any type of grinding work.

Non-chlorinated cutting oil

## SUNICUT 412

Lineup	VG Grade	Packaging
412	VG12	200L

Features

Environmentally friendly, active, non-chlorine based water-insoluble cutting oil containing highly refined base oil, active sulfur and phosphorous extreme-pressure additives. Uses non-chlorine based additives for ease of after-handling or maintenance of allmachines. Designed with a low-viscosity compound to ensure the oil flows into every corner of complexly shaped work material for full processing performance.

Qualities

Nut formers, cutting work in ordinary steel.

Provides a smooth start and contributes to advanced manufacturing

## Sliding surface oil



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Sliding surface Oil for hydraulics

## SUN LUBEWAY

Features

Completely prevents stick-slip. Naphthenic base oil is used for added sludge prevention and excellent starting performance at low temperatures.

Qualities

Machine tools which use the same oil for hydraulics/sideways.

Dedicated slidways oils

## SUN WAY LUBRICANT

Features

Completely prevents stick-slip on sliding surfaces. “80” uses a naphthenic base oil. While “11-80” has excellent separability from water-soluble processing fluids. It also has excellent starting performance at low temperatures

Qualities

Sideways-sliding parts of machine tools.

Environmentally friendly, highly refined base oil

## Base Oils

Naphthenic Base Oils

## SUN N/JSO N

Features

Hydrogenated and refined naphthenic base oil that meets EU cancer standards. Available in low to high viscosity, allowing you to choose the right oil for your application.

Qualities

Base oils for insulating oil, ink, grease, processing oil, etc.

Lineup	VG Grade	Packaging
40N	VG4	200L
60N	VG10	20L,200L
100N	VG22	
JSO N600	VG120	200L
2000N	VG380	20L,200L
2400N	VG460	200L
JSO N5000	VG1000	

A full lineup of products covers a wide range of industrial fields

## Process oil (rubber processing oil)



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### Paraffinic Process Oils

## SUNPAR

Lineup	VG Grade	Packaging
107	VG12	20L, 200L, Tank Lorry
110	VG22	
115	VG32	
150	VG100	
2100	VG180	
2280	VG460	

#### Features

Paraffinic hydrocarbon (CP%) of 55 or higher provides excellent stain resistance, heat resistance, and color stability. Ideal as a process oil for natural rubber and EPDM.

#### Qualities

Process and extender Compound oil for synthetic rubber(EPDM,IR,IIR), natural rubber, and adhesives.

### Aroma Free Process Oil

## SUNPURE

Lineup	VG Grade	Packaging
LW70	VG12	20L, 200L, Tank Lorry
P22	VG22	
P32	VG32	
P100	VG100	

#### Features

An aroma-free process oil that has undergone advanced hydro refining. Aroma and sulfurous elements have been thoroughly removed to give outstanding resistance to heat/weather and excellent transparency.

#### Qualities

Compound oil for rubbers, plastics and adhesives sensitive to hue changes.

### Naphthenic Process Oils

## SUNTHENE

#### Features

Almost no color change from heat or ultraviolet rays. Contains aromatic substances, has excellent compatibility and dispersion properties. Advanced hydro refining to fully pass the EU carcinogenic standards.

#### Qualities

Process and extender compound oil for synthetic rubber (EPDM, SBR, CR) , natural rubber, and adhesives.

### Synthetic processoil for Chloroprene rubber

## SUNTHETIC B

#### Features

Semi-synthetic process oil designed with a low aniline point to enhance compatibility with various rubbers. It can be blended with high filler content and is ideal as a replacement to conventional aromatic oils. In addition, highly stable raw materials are used to meet environmental standards.

#### Qualities

Compound oil for chloroprene rubber and nitrile rubber.

### Standard oil for rubber immersion test

## IRM

#### Features

Immersion test oil for vulcanized rubber and thermoplastic rubber specified in “JIS K 6258” and “ASTM D471”.

#### Qualities

Immersion testing of vulcanized and thermoplastic rubbers.

Lineup	VG Grade	Packaging
410	VG22	20L, 200L, Tank Lorry
415	VG32	
450	VG100	
4240	VG460	

Lineup	VG Grade	Packaging
B-1500	VG380	200L

Lineup	VG Grade	Packaging
901	—	20L
902	—	
903	—	



Trusty Kojimachi Bldg., 3-4 Kojimachi, Chiyoda-ku, Tokyo 102-0083 Japan  
TEL : +81-(0)3-3238-0235