

SUNOCO

Sunice

SYNTHETIC REFRIGERATION OIL

SUNISO

REFRIGERATION OIL

by



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SUNISO GS series

"SUNISO GS" series are premium quality oils expressly designed for use as refrigeration compressor lubricants. They are fully compatible with various refrigerants and highly stable, thus assuring long trouble-free life and are essentially wax free.

【Applicable Refrigerants】

HCFC, HC and R717(Ammonia) Refrigerants

【Viscosity Grade】VG32、VG56、VG100

【Package】200 Liter Drum, 20 Liter Pail, 3.78 Liter×6 Gallon

SUNISO 4SA / SUNISO 4HT

"SUNISO 4SA" is a specially selected naphthenic refrigeration oil formulated for use with R717(Ammonia) refrigeration system.

"SUNISO 4HT" is a highly refined paraffinic refrigeration oil formulated for R717(Ammonia) refrigeration system particularly for food processing facilities.

【Applicable Refrigerants】R717(Ammonia) Refrigerants

【Viscosity Grade】VG56

【Package】200 Liter Drum, 20 Liter Pail

SUNICE SL series

"SUNICE SL" series are synthetic refrigeration oils using polyolester(POE) as a basestock with special additives that result in excellent miscibility with HFC Refrigerants used in compressor for refrigerators, freezers, air conditioners, chillers and industrial refrigeration system.

【Applicable Refrigerants】HFC and HFO Refrigerants

【Viscosity Grade】VG32, VG68, VG100, VG170, VG220

【Package】200 Liter Drum, 20 Liter Pail, 4 Liter×6 Metal Cans, 1 Liter×10 Metal Cans

【Application Table】

Refrigerants	R22	R717	R404A	R134a	R407C	R410A
SUNISO GS	✓	✓				
Evaporation Temp.	>-50°C(*1)	>-60°C(*2)				
SUNISO 4SA		✓				
Evaporation Temp.		>-60°C(*2)				
SUNISO 4HT		✓				
Evaporation Temp.		>-60°C(*2)				
SUNISO SL-S			✓	✓	✓	✓
Evaporation Temp.			>-60°C	>-60°C	>-40°C	>-40°C

(*1) : Please use SUNISO 3GS in the range of evaporation temp as -50°C to -30°C and SUNISO 4GS as -30°C and higher.

(*2) : Applicable Evaporation Temp for Flooded-Evaporator type system.



SUNISO series

Description	SUNISO 3GS	SUNISO 4GS	SUNISO 5GS	SUNISO 4SA	SUNISO 4HT
Viscosity Grade	VG32	VG56	VG100	VG56	VG56
Kinematic Viscosity (40°C) mm ² /s	29.6	55.0	97.1	53.9	54.3
Kinematic Viscosity (100°C) mm ² /s	4.45	6.10	8.50	6.73	8.22
Color (ASTM)	L0.5	L1.0	L1.0	L1.0	L0.5
Flash Point °C	178	188	208	198	240
Pour Point °C	-40	-35	-27.5	-40	-35
Acid Number mgKOH/g	0.01	0.01	0.01	0.01	0.01
Water ppm	20	20	20	20	20

SUNICE SL series

Description	SUNICE SL-32S	SUNICE SL-68S	SUNICE SL-100S	SUNICE SL-170S	SUNICE SL-220S
Viscosity Grade	VG32	VG68	VG100	VG170	VG220
Kinematic Viscosity (40°C) mm ² /s	33.0	65.1	98.1	160	211
Kinematic Viscosity (100°C) mm ² /s	5.38	8.06	11.2	16.1	20.2
Color (ASTM)	L0.5	L0.5	L0.5	L0.5	L0.5
Flash Point °C	220	254	234	230	224
Pour Point °C	-45	-40	-35	-32.5	-32.5
Acid Number mgKOH/g	0.01	0.01	0.01	0.01	0.01
Water ppm	50	50	50	50	50
Separate Temperature (Oil 10%)					
R404A °C	<-60	<-60	<-60	<-60	<-60
R134a °C	-40	-25	-38	-52	<-60
R410A °C	-25	-6	-20	-33	-48

Refrigeration Lubricant Selector

Applications	Refrigerant		Evaporator temperature(°C)	Compressor type		
	Type	ASHRAE name		Reciprocating	Screw	
All	HCFC	R22	> -25	3GS / 4GS	4GS / 5GS	
			> -35	3GS / 4GS	4GS	
			> -50	3GS	3GS	
Refrigerated warehouse Refrigerator for industrial use	NH3 (Ammonia)	R717	> -35	3GS / 4GS	4GS	
			> -60	3GS	3GS	
Commercial refrigerator Condensing units	HFC	R134a	> -25	SL-32S	SL-170S/220S	
			> -40	SL-32S	SL-68S/100S	
Refrigerator unit Commercial refrigerated unit Transport refrigerated uni		R404A	> -25	SL-32S	SL-170S/220S	
			> -60	SL-32S	SL-68S/100S	
Commercial air conditioner, GHP		R407C	> -30	SL-68S	SL-170S/220S	
			Air conditioner Condensing units	R410A	> -35	SL-32S
> -45		SL-32S			SL-68S/100S	
Low temperature refrigerator		R507A	> -60	SL-32S	SL-68S/100S	
			Drop in (Alternative HCFC)	HFC+R600a	R417A (Isceon MO59)	> -15
R422A (Isceon MO79)		> -35			SL-32S	SL-170S/220S
	> -60	SL-32S			SL-68S/100S	
R422D (Isceon MO29)	> -35	SL-32S			SL-170S/220S	
	> -60	SL-32S			SL-68S/100S	

บริษัท ซันโนโก้ (ไทยแลนด์) จำกัด ได้รับการแต่งตั้งเป็นตัวแทนจำหน่ายแต่เพียงผู้เดียวในประเทศไทยของสินค้าภายใต้ชื่อ SUNISO จาก บริษัท JAPAN SUN OIL CO., LTD. ผู้ซึ่งดูแลสินค้าภายใต้ชื่อ SUNISO แต่เพียงผู้เดียวในทวีปเอเชีย บริษัท ซันโนโก้ (ไทยแลนด์) จำกัด จึงเป็นผู้มีสิทธิขาดแต่เพียงผู้เดียวในการนำเข้าและจำหน่ายในประเทศไทย

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