



		Product name	ISO VG Grade	Density at 15 °C g/cm3	Viscosity 40 °C [mm2/s]	Viscosity 100 °C [mm2/s]	Pour point [°C]	Flash point (COC) [°C]	Description
 <b>No.1 Mineral Ref Oil Brand</b>  <b>JSO is the Only One Authorized SUNISO Manufacturer in Asia and Pacific</b>	GS series is widely used in various applications. Good for CFC, HCFC and Natural refrigerants.	<b>SUNISO 3GS</b>	32	0.909	29.4	4.4	-40	174	SUNISO can be used in virtually any installation, regardless of compressor or evaporation temperature and are miscible with HCFC refrigerants and natural refrigerants, such as R22, R717, R600a and R290.  SUNISO is refined from specially selected naphthenic crude oils by special method assuring excellent lubricity and other properties.
		<b>SUNISO 4GS</b>	56	0.917	55.5	6.2	-35	192	
		<b>SUNISO 5GS</b>	100	0.916	96.5	8.5	-30	222	
	GSD series has been enhanced antifoaming properties. It can be used in chillers, which have the problems with foaming phenomena at startup.	<b>SUNISO 3GSD</b>	32	0.909	29.4	4.4	-40	174	SUNISO is approved by all major air-conditioner, refrigerator, freezer, car air-conditioner manufacturers in the world.
		<b>SUNISO 4GSD</b>	56	0.917	55.5	6.2	-35	192	
		<b>SUNISO 5GSD</b>	100	0.916	96.5	8.5	-30	222	
	SUNISO 4SA & 4HT are specially developed for ammonia applications	<b>SUNISO 4SA</b>	56	0.9017	53.9	6.7	-40	198	4SA is a specially formulated naphthenic ref oil optimized for R717 system.
		<b>SUNISO 4HT</b>	56	0.8554	54.3	8.2	-35	240	4HT is a highly refined paraffinic refrigeration oil with improved high-temperature durability for R717 system.
 <b>The Finest Synthetic Ref Oils Designed by JSO</b>  Sunice SL series was formerly known as SUNISO SL series.  We've changed our brand name of synthetic products to clarify the distinction between mineral products and synthetic products since 2017.	Sunice SL series is designed specifically for use with HFC/HFO refrigerants, developed to meet the performance demands of the refrigeration industry.	<b>Sunice SL-10S</b>	10	0.928	9.7	2.4	below -50	182	Sunice SL series is synthetic refrigeration oils designed for using into refrigeration compressors for refrigerators, freezers, chillers and industrial refrigeration systems to be charged with HFC/HFO refrigerants.  Especially having excellent miscibility and compatibility with HFC refrigerants such as R-134a, R404A, R407C, R410A, R507.  Featuring the following characteristics: •Excellent Hydrolytic Stability •Remarkable Thermal Stability •Outstanding Lubricity •High Electrical Insulating Property
		<b>Sunice SL-22S</b>	22	0.950	21.1	4.0	below -50	208	
		<b>Sunice SL-32S</b>	32	0.950	33.4	5.4	-45	216	
		<b>Sunice SL-46S</b>	46	0.955	46.0	6.6	-42.5	226	
		<b>Sunice SL-68S</b>	68	0.959	66.8	8.3	-37.5	260	
		<b>Sunice SL-100S</b>	100	0.977	96.5	11.1	-35	272	
		<b>Sunice SL-120T</b>	120	0.972	114.3	12.2	-32.5	276	
		<b>Sunice SL-170T</b>	170	0.977	163.0	15.7	-27.5	284	
		<b>Sunice SL-220T</b>	220	0.983	211.2	18.8	-25	302	
		<b>Sunice SL-320T</b>	320	0.967	318.0	22.8	-17.5	298	
	POE for refrigerated vehicles with R134a/R404A/R410A	<b>Sunice SL-68SP</b>	68	0.963	64.9	8.1	-37.5	266	SL-68SP is developed to reduce wear on swash plate compressors exposed to high pressures.
	PAG for vehicle a/c with R134a & R1234yf	<b>Sunice P46</b>	46	1.012	46.3	9.0	-45	202	P46/PB100 is suitable for vehicle a/c using a belt-driven compressor.
	PAG for vehicle a/c with R134a	<b>Sunice PB100</b>	100	1.048	94.8	19.2	-42.5	246	P46/PB100 is not applicable to electric compressors used in a/c on HV and EV.

