



		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	
 No.1 Mineral Ref Oil Brand <i>JSO is the Only One Authorized SUNISO Manufacturer in Asia and Pacific</i>	GS series is widely used in various applications. Good for CFC, HCFC and Natural refrigerants.	SUNISO 3GS	32	0.909	29.5	4.3	-40	178	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. SUNISO is approved by all major air-conditioner, refrigerator, freezer, car air-conditioner manufacturers in the world.	
		SUNISO 4GS	56	0.915	54.9	6.0	-35	188		
		SUNISO 5GS	100	0.921	94.6	7.8	-27.5	208		
		GSD series has been enhanced antifoaming properties. It can be used in chillers, which have the problems with foaming phenomena at startup.	SUNISO 3GSD	32	0.910	29.5	4.4	-40		178
			SUNISO 4GSD	56	0.915	54.5	6.1	-35		182
			SUNISO 5GSD	100	0.925	96.5	8.1	-25		188
	SUNISO 4SA & 4HT are specially developed for ammonia applications	SUNISO 4SA	56	0.902	53.9	6.7	-40	198	4SA is a specially formulated naphthenic ref oil optimized for R717 system. 4HT is a highly refined paraffinic refrigeration oil with improved high-temperature durability for R717 system.	
		SUNISO 4HT	56	0.855	54.3	8.2	-35	240		
 The Finest Synthetic Ref Oils Designed by JSO <i>Sunice SL series was formerly known as SUNISO SL series.</i> <i>We've changed our brand name of synthetic products to clarify the distinction between mineral products and synthetic products since 2017.</i>	Sunice SL series is designed specifically for use with HFC/HFO refrigerants, developed to meet the performance demands of the refrigeration industry.	Sunice SL-10S	10	0.928	10.1	2.5	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	
		Sunice SL-22S	22	0.951	22.5	4.1	below -50	212		
		Sunice SL-32S	32	0.956	32.3	5.1	-35	230		
		Sunice SL-46S	46	0.955	45.8	6.6	-42.5	228		
		Sunice SL-68S	68	0.960	66.6	8.2	-40	254		
		Sunice SL-100S	100	0.974	98.1	11.2	-35	234		
		Sunice SL-120T	120	0.971	115.8	12.2	-30	272		
		Sunice SL-170T	170	0.968	161.0	15.4	-30	280		
		Sunice SL-220T	220	0.976	216.0	19.0	-27.5	286		
	Sunice SL-320T	320	0.967	310.0	22.6	-15	298			
	POE for refrigerated vehicles with R134a/R404A/R410A	Sunice SL-68SP	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	Sunice P46	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	Sunice PB100	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.		

