

	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>Sunice GS series is the same product previously marketed as the SUNISO GS series.</i> <i>Effective from 2026, only the product name has been changed.</i>	<p>GS series is widely used in various applications. Good for CFC, HCFC and Natural refrigerants.</p> <p>GSD series has been enhanced antifoaming properties. It can be used in chillers, which have the problems with foaming phenomena at startup.</p> <p>Sunice 4SA & 4HT are specially developed for ammonia applications</p>	Sunice 3GS Sunice 4GS Sunice 5GS Sunice 3GSD Sunice 4GSD Sunice 5GSD Sunice 4SA Sunice 4HT	32 56 100 32 56 100 56 56	0.909 0.915 0.921 0.910 0.915 0.925 0.902 0.855	29.5 54.9 94.6 29.5 54.5 96.5 53.9 54.3	4.3 6.0 7.8 4.4 6.1 8.1 6.7 8.2	-40 -35 -27.5 -40 -35 -25 -40 -35	178 188 208 178 182 188 198 240	<p>Sunice GS Series 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.</p> <p>Sunice GS is refined from specially selected naphthenic crude oils by special method assuring excellent lubricity and other properties.</p> <p>Sunice is approved by all major air-conditioner, refrigerator, freezer, car air-conditioner manufacturers in the world.</p>
 The Finest Synthetic Ref Oils Designed by JSO <i>Sunice SL series was formerly known as the SUNISO SL series.</i> <i>The brand name of our synthetic products was changed in 2017.</i>	<p>Sunice SL series is designed specifically for use with HFC/HFO refrigerants, developed to meet the performance demands of the refrigeration industry.</p>	Sunice SL-10S Sunice SL-22S Sunice SL-32S Sunice SL-46S Sunice SL-68S Sunice SL-100S Sunice SL-120T Sunice SL-170T Sunice SL-220T Sunice SL-320T Sunice SL-68SP	10 22 32 46 68 100 120 170 220 320 68	0.928 0.951 0.956 0.955 0.960 0.974 0.971 0.968 0.976 0.967	10.1 22.5 32.3 45.8 66.6 98.1 115.8 161.0 216.0 310.0 64.9	2.5 4.1 5.1 6.6 8.2 11.2 12.2 15.4 19.0 22.6 8.1	below -50 below -50 -35 -42.5 -40 -35 -30 -30 -27.5 -15 -37.5	182 212 230 228 254 234 272 280 286 298 266	<p>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.</p> <p>Especially having excellent miscibility and compatibility with HFC refrigerants such as R-134a, R404A, R407C, R410A, R507.</p> <p>Featuring the following characteristics:</p> <ul style="list-style-type: none"> • Excellent Hydrolytic Stability • Remarkable Thermal Stability • Outstanding Lubricity • High Electrical Insulating Property
	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.

