

SUNISO SYNTHETIC REFRIGERATION OILS



SUNISO® SL RANGE

SL22, SL32, SL46, SL68, SL100; SL170, SL220

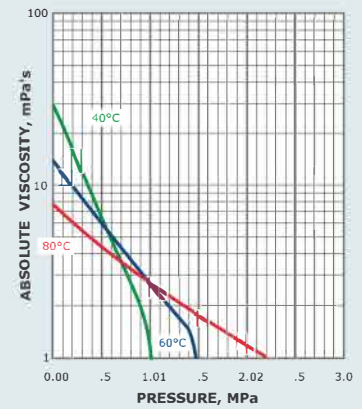
Suniso® SL synthetic refrigeration oils are formulated with select polyol ester base stock and additives, providing outstanding lubrication, stability and corrosion protection. Suniso® SL oils are miscible with HFC refrigerants* at extremely low temperatures. Suitable for use in compressors of refrigeration and air conditioning systems, working on ozone friendly alternative coolants.

	SL22	SL32	SL46	SL68	SL100	SL170	SL220
density at 15°C	0.990	0.980	0.970	0.960	0.960	0.990	0.990
viscosity at 40°C	22.0 cSt	32.0 cSt	47.2 cSt	70.1 cSt	100 cSt	170 cSt	220 cSt
viscosity at 100°C	4.6 cSt	5.8 cSt	7.2 cSt	9.1 cSt	11.3 cSt	17.2 cSt	20.8 cSt
viscosity index	127	125	112	105	100	109	111
flash point	232°C	235°C	235°C	252°C	254°C	260°C	264°C
pour point	-48°C	-48°C	-44°C	-36°C	-36°C	-24°C	-30°C
colour	L 0.5	L 0.5	L 0.5	L 0.5	L 0.5	L 0.5	L 0.5
water	< 100 ppm	< 100 ppm	< 100 ppm	< 100 ppm	< 100 ppm	< 100 ppm	< 100 ppm

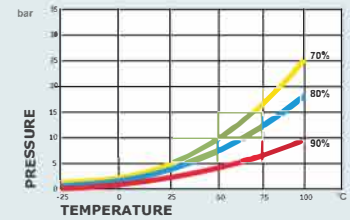
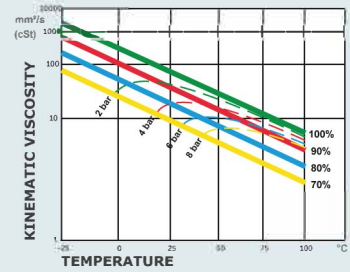
*overview of refrigerants

HFC R23, R134a, R234fa, R404a, R407a, R407b, R407c, R410a, R507, R508

VISCOSITY - PRESSURE CHART FOR SOLUTIONS OF R-134a in SUNISO® SL32 at 40°C, 60°C, 80°C



KINEMATIC VISCOSITY AND VAPOUR PRESSURE OF SUNISO® SL32 - R134a MIXTURE



SUNISO MINERAL REFRIGERATION OILS



SUNISO® GS AND G RANGE

3GS, 3.5GS, 4GS, 4.5G, 5G

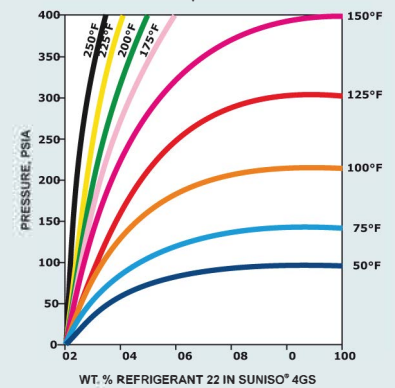
Recommended by most major equipment manufacturers and refined from specially selected naphthenic base oils. Highly stable, essentially wax free, thus providing excellent low temperature properties and assuring long trouble-free life. Suniso® GS oils can be used in virtually any installation, regardless of compressor or evaporation temperature and are miscible with (H)CFC refrigerants and natural refrigerants**. Therefor Suniso® GS oils can be applied in commercial as well as in residential refrigeration and air conditioning systems.

	3GS	3.5GS	4GS	4.5G	5G
density at 15°C	0.910	0.914	0.916	0.917	0.920
viscosity at 40°C	30 cSt	43 cSt	55 cSt	68 cSt	100 cSt
viscosity at 100°C	4.4 cSt	5.3 cSt	5.9 cSt	6.7 cSt	8.4 cSt
flash point	168°C	175°C	179°C	170 °C	182°C
pour point	-40°C	-37°C	-36°C	-24 °C	-24°C
floc point	-54°C	-50°C	-48°C	-33 °C	-33°C
aniline point	74°C	76°C	77°C	82 °C	82°C
colour	1.0	1.0	1.0	2.0	L2.0

**overview of refrigerants

CFC R11, R12, R13, R131b1, R113, R114, R500, R502, R503
 HCFC R22, R123, R124, R401a, R401b, R402a, R402b, R403b, R406a, R408a, R409a
 Ammonia R717
 Isobutane R600a
 Propane R290

SOLUBILITY OF REFRIGERANT 22 in SUNISO® 4GS as a function of Temperature and Pressure



SOLUBILITY OF REFRIGERANT 22 in 150 SUS/100°F SUNISO® GS Refrigeration Oils

