



Products Data Sheet

【SUNISO GS Series】

– Refrigeration Oil for HC, CFC and HCFC Refrigerants –

“Suniso GS” series are premium quality mineral oils specially formulated for use as refrigeration compressor lubricants. “Suniso GS” series have excellent lubricity not only with HC, CFC and HCFC refrigerants.

1. Features

■Excellent Chemical / Thermal Stability

“Suniso GS” series are from specially selected naphthenic oils by sophisticated methods, assuring excellent lubricity and other properties. “Suniso GS” series have excellent chemical stability against chemical reactions in the system. Thermal stability of the lubricants eliminate excessive carbon deposits at hot spots of valves and discharge ports in a compressor.

SUNISO GS Oils



Conventional Oils



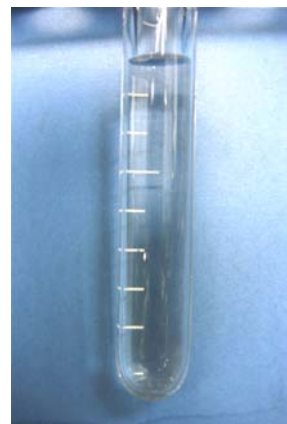
Sealed Tube Test

Condition : SUNISO 3GS 175°C x 14 days
Catalyst : Fe, Cu, Al
Refrigerant : R-12

■ Low Wax Content/Pour Point

“Suniso GS” series minimize flocculant wax separation from the oil-refrigerant mixture at the low temperature points in the system. Low pour points prevent coagulation in the refrigeration cycle.

SUNISO GS Oils



Conventional Oils



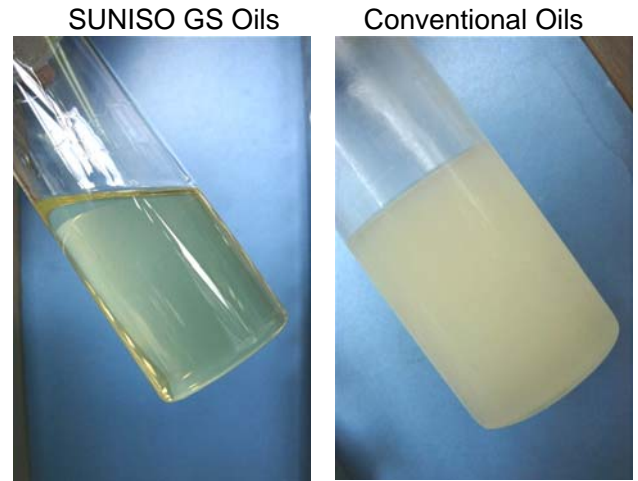
Floc Test

Condition : SUNISO 3GS at - 50°C
Refrigerant : R-12



■ Proper Viscosity

“Suniso GS” series provide good fluidity under coldest operating conditions and insure high film strength at elevated operating temperatures. Under severe conditions in a system, “Suniso GS” series keep proper viscosity and contribute a long trouble-free life in the refrigeration system.



Pour Point

Condition : SUNISO 3GS at -40°C

2. Typical Properties

		SUNISO 3GS	SUNISO 4GS	SUNISO 5GS
Density (15°C)	g/cm ³	0.909	0.914	0.916
Color	ASTM	L0.5	L1.0	L1.5
Viscosity (40°C)	mm ² /s	29.4	54.4	97.8
Viscosity (100°C)	mm ² /s	4.443	6.294	8.76
Flash Point (COC)	°C	176	188	226
Pour Point	°C	-40	-35	-27.5
Floc Point	°C	-53	-47	-37
Total Acid No.	mgKOH/g	0.01	0.01	0.01
Cu Corrosion		1a	1a	1a
Dielectric Strength	kV	55	50	45

3. Application

For applications in Refrigerator, Air-Conditioner, Car Air-Conditioner and Freezer compressors.

4. Manufacturer Approval

Daikin, Hitachi, Panasonic (Inc. SANYO), MITSUBISHI, TOSHIBA Carrier, Sanden, DENSO, Emerson, Tecumseh, Trane, Carlyle, Bristol, G.E, Electrolux, Danfoss, Embraco, LG, Samsung, Daewoo, Tatung, MYCOM, Whirlpool, Johnson Controls, etc.

Remarks

- DO NOT contaminate by exposure to moisture, dust and debris.
- DO NOT mix with any other types of oil.
- DO NOT ingest.
- DO NOT generate oil steam.
- Store in cool dry place and away from sunlight.
- Keep away from flames, sparks or hot surfaces.
- Use chemical goggles to avoid contact with eyes.
- Use protective gloves to avoid skin irritation.

* Information in this document is subject to change without notice.