



# Product Data Sheet

## 【 SUNISO® 4SA / 4HT 】

— The Lubricant for R-717 ( Ammonia ) Refrigeration System—

“Suniso® 4SA” is a specially selected naphthenic refrigeration oil formulated for use with R-717 (Ammonia) refrigeration system.

“Suniso® 4HT” is a highly refined Group II based refrigeration oil formulated for R-717 (Ammonia) refrigeration system particularly for the food processing facilities.

### 1. Features

#### Suniso® 4SA

For more than 30 years, Suniso® 4SA had been widely recognized and used as “The Refrigeration Oil for R-717 (Ammonia)”. The remarkable qualities of Suniso® 4SA are:

- ✓ Long-Term Performance
- ✓ Higher Wear Resistance
- ✓ Excellent Lubricity

Prevent wear and seizure of metal parts by stronger oil-film shown as below:

Description	Suniso® 4SA	Conventional Oil
FALEX Failure Load Test, lbs.	420	275

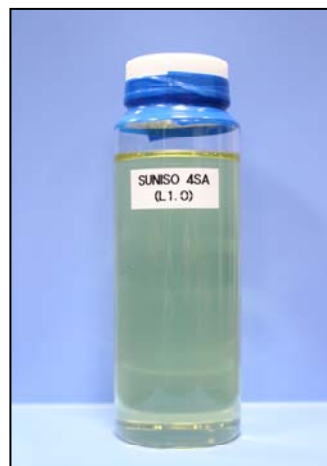
Test Method: ASTM D3233

#### Suniso® 4HT

Suniso® 4HT is a newly developed refrigeration oil used particularly in refrigeration systems for food processing facilities. This highly refined Group II base oil was developed and formulated for this purpose from the experience gained through the long-term sales of Suniso® 4SA. The remarkable qualities of Suniso® 4HT are:

- ✓ Highly Refined Group II Oil
- ✓ Excellent Thermal Stability
- ✓ Less Carbon Deposits

SUNISO® 4SA



SUNISO® 4HT



ASTM Color

L1.0

L0.5



## 2. Typical Properties

Description			SUNISO® 4SA	SUNISO® 4HT
Density,	@15°C	g/cm <sup>3</sup>	0.9017	0.8554
Color,		ASTM	L1.0	L0.5
Flash Point,	COC,	°C	198	240
Pour Point,		°C	-40	-35
Kin. Viscosity,	@40°C	mm <sup>2</sup> /s	53.88	54.28
Kin. Viscosity,	@100°C	mm <sup>2</sup> /s	6.728	8.221
Viscosity Index			69	122
Total Acid No.,		mgKOH/g	0.01	0.01
Dielectric Str.,		kV	45	45
Foaming Tend./Stab,		All seq.	10 / 0	10 / 0

## 3. Package

Available in **205L Drum** and **20L Pail**



### Distributed by:

- The typical values contained on this data sheet represent the values of the product and relates only to the named product. User is solely responsible for determining the suitability of the product for its use intended by user, including use in any process and the combination of the product with any other material. Please contact your distributor for additional information.

- SUNISO® has approvals from various manufacturers of refrigerator and air-conditioning, including Daikin, MYCOM, Hitachi, Panasonic (Inc. Sanyo), Mitsubishi Heavy Industries, Toshiba Carrier, GMCC, Tecumseh, Trane, Carlyle, Bristol, General Electric, Electrolux, Embraco, Samsung, LG, Daewoo, Tatung, Fusheng, Whirlpool, Johnson Controls, Kulthorn Kirby, etc.

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