



# Hankook Lube Oil Inc.

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## SZC RS GS Series

### Product Description

SZC RS GS Series are high performance naphthenic mineral oils primarily intended for use in refrigeration compressors. They have low pour points and excellent fluidity at very low temperatures by virtue of being almost wax-free. Consequently, use of these oils helps to ensure that evaporator tubes are kept clean to improve heat transfer and to reduce downtime for maintenance. They have good chemical stability and are suitable both for cylinder and bearing lubrication.

SZC RS GS Series are compatible with most refrigerants except sulphur dioxide. They are not recommended for use with HFC refrigerants. The moisture content of oils is very low when the oils are packaged. Every precaution should be taken to keep the oils dry to avoid the formation of ice in expansion valves, and to limit the risks of oil degradation, copper plating, etc.

### Features

Good chemical stability

Low wax content

Multi-purpose lubricants

### Advantages and Potential Benefits

Long service life resulting in less downtime and lower maintenance costs.

Excellent low temperature flow and evaporator heat transfer for optimum system efficiency

Suitability for the lubrication of both cylinders and bearings reduces oil inventories.

### Application

The following types of refrigeration compressors and machinery at sub-zero temperature.

- Reciprocating and rotary refrigeration compressor.
- Food freezing and cold storage plants.
- Marine refrigeration applications.
- Ammonia refrigerant, but also used with selected halocarbons.

### Typical Properties

Test Item		Test Method	RS 3GS	RS 4GS	RS 4GS 68	RS 5GS
Appearance		Visual	Clear	Clear	Clear	Clear
Density, g/cm <sup>3</sup> (15°C)		ASTM D 1298	0.872	0.890	0.900	0.905
Viscosity, mm <sup>2</sup> /s	@ 40 °C	ASTM D 445	32.4	56.1	65.1	100.2
Total Acid Number, mgKOH/mg		ASTM D 974	< 0.1	< 0.1	< 0.1	< 0.1
Flash Point, °C		ASTM D 92	210	220	230	236
Pour Point, °C		ASTM D 97	-54	-45	-42	-39

The typical properties may be changed without notice.

### Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendation provided in the Material Safety Data Sheet(MSDS) is followed. This product should not be used for purpose other than its intended use. If disposing of used product, take care to protect the environment.