

Technical Data Sheet (TDS)

Product Name: Refrigeration Compressor Lubricant

Product Code: SCL-90

Revision Date: 2024-09-27

Refrigeration Compressor Lubricant

1. Product Overview

This premium refrigeration compressor lubricant is specifically designed for use with a wide range of refrigerants, including CFCs, HCFCs, and HFCs. It is formulated to ensure superior chemical stability, excellent lubricity, and low miscibility with refrigerants. The product matches the performance standards of Japanese brands such as Idemitsu and ENEOS (JX Nippon Oil & Energy).

2. Typical Properties

Property	Typical Value
Appearance	Clear, light yellow fluid
Base Oil Type	Alkylbenzene / Polyol Ester (POE)
Viscosity @ 40°C	46 mm ² /s
Viscosity @ 100°C	6.8 mm ² /s
Viscosity Index	110
Pour Point	-40°C
Flash Point (COC)	≥220°C
Acid Number	<0.02 mgKOH/g
Water Content	<50 ppm
Compatibility	Compatible with CFC, HCFC, HFC refrigerants

3. Applications

- Refrigeration and air conditioning compressors
- Both stationary and mobile systems
- Compatible with reciprocating, screw, and scroll compressors

4. Advantages

- Excellent thermal and chemical stability
- Superior lubricity reduces wear and extends compressor life
- Low pour point ensures fluidity at low temperatures
- Minimal sludge and deposit formation
- Optimized miscibility with refrigerants to ensure system efficiency

5. Packaging

Available in 1L bottles, 4L cans, 20L pails, and 200L drums.

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