

Technical Data Sheet (TDS)

Product Name: High-Performance Lubricant for Precision Bearings

Product Code: SCL-25

Revision Date: 2024-09-27

1. Product Description

This premium synthetic lubricant grease is specifically engineered for high-precision bearings operating under extreme conditions. It delivers outstanding performance in terms of thermal stability, oxidation resistance, and wear protection, ensuring long service life and reliability. The formulation is optimized to reduce friction and noise while maintaining excellent lubrication under high-speed, high-load, and wide-temperature conditions. It is ideally suited for critical applications where precision, durability, and performance cannot be compromised.

Applications: High-precision bearings in automotive, aerospace, and industrial machinery.

2. Applications

High-precision bearings in automotive, aerospace, and industrial machinery

3. Key Features

- Excellent thermal stability up to 200°C (short-term peak 220°C)
- Outstanding load-carrying capacity and anti-wear performance
- Low friction coefficient for high-speed rotation
- Superior resistance to water washout and corrosion
- Compatible with most bearing materials including stainless and ceramic
- Extended re-lubrication intervals under normal operating conditions

4. Technical Specifications

Property	Typical Value	Test Method
Base Oil	Fully Synthetic (PAO + Ester)	-
NLGI Grade	2	ASTM D217
Operating Temperature	-40°C to +200°C	-
Drop Point	>260°C	ASTM D2265
Worked Penetration (60x)	265-295	ASTM D217
4-Ball Wear Scar (mm)	≤0.5	ASTM D2266
4-Ball EP Weld Load	≥250 kg	ASTM D2596
Water Washout	<2%	ASTM D1264
Copper Corrosion	1a	ASTM D4048
Oil Separation (168h, 40°C)	<3%	ASTM D6184

5. Storage and Handling

Store in original container in a dry, clean, and well-ventilated area between 0°C and 40°C. Avoid contamination with water or dust. Follow local regulations for disposal.

6. Packaging

400g cartridges, 5kg pails, 15kg pails, 180kg drums

7. Disclaimer

The information given in this Technical Data Sheet is based on our current knowledge and experience. It does not constitute a legally binding assurance of product properties or fitness for a particular purpose.

SENDACHEM Singapore