



SRI Grease NLGI 2

High performance high temperature roller and ball bearing grease

Product description

SRI Grease NLGI 2 is a high performance high temperature roller and ball bearing grease suitable for use in severe applications such as field operations, where electric motors require robust protection from oxidation, rust and corrosion.

SRI Grease NLGI 2 is formulated with highly refined base stocks and an ashless organic polyurea thickener in combination with reliable oxidation and rust inhibitors. It has a smooth, buttery texture and is dark green in colour.

Customer benefits

- Offers protection to ball, needle and roller bearings operating at speeds in the region of 10,000 rpm
- Promotes wide temperature bearing protection at operating temperatures ranging from -29°C to +177°C
- Contributes reliable oxidation resistance at operating temperatures in the range of +93°C to +177°C
- Aids reliable rust protection as defined by ASTM D1743-73 with 5% Synthetic Sea Water
- Contributes 'Life Pack' lubricant performance where protection against moisture and road-splash is required

Product highlights

- **High speed operation**
- **Wide temperature protection**
- **ASTM rust resistance**
- **Salt water protection**
- **Sealed-for-life bearing applications**

Selected specification standards include:

DIN	FAG
ISO	Koyo
Lincoln Motors	NMB
NSF	NSK
NTN	Reliance Electric Company
Toshiba International	U.S. Motors Division of Emerson Electric Company

Applications

- High speed anti-friction ball, needle and roller bearings operating at speeds in the region of 10,000 rpm
- High speed bearings operating under a wide range of temperature conditions
- Unsealed bearings where there is the likelihood of freshwater or saltwater ingress
- Sealed-for-life bearings
- Industrial ball and roller bearings
- Electric motor, fan and air-conditioning unit bearings
- Automotive alternator, generator and starter motor bearings
- Water pump bearings
- Boat trailer wheel bearings
- As a 'Life Pack' lubricant in automotive generators, alternators and starters where protection against the effects of moisture and road-splash is required (factory-filled for life ball bearings)
- Bearings in air-conditioning units
- Applications where silent operation is beneficial

Note: In modern, high output, high load electric motors, there are occasions where these units employ ball and roller element bearings in the same motor.

On units where horsepower and load are considered high on the roller element bearing, EP greases should be employed. In these instances, Black Pearl[®] Grease EP would be the grease of choice and is fully compatible with SRI Grease.

Approvals, performance and recommendations

Approvals

- NSF, H2

Performance

SRI Grease	DIN 51 502	ISO 6743-09	Operating temperature
NLGI 2	K 2P-30	ISO-L-XCFIA2	-30°C up to 175°C

Recommendations

- Bearing manufacturers: NSK, NTN, FAG, NMB, and Koyo.
- Electric motor manufacturers: Reliance Electric Company, U.S. Motors Division of Emerson Electric Company, Toshiba International, and Lincoln Motors.
- Electric Company, Toshiba International, and Lincoln Motors.

Typical test data		
Test	Test methods	Results
NLGI Grade		2
Product Code		043411
Thickener	-	Polyurea
Thickener content,%	-	8
Texture & Colour	-	Dark Green, Smooth, Buttery
Base Oil (†)	-	Mineral
Kinematic viscosity, 40°C, mm ² /s	ASTM D445	116
Kinematic viscosity, 100°C, mm ² /s	ASTM D445	12.3
Viscosity Index	ASTM D 2270	95
Flash Point COC, °C (°F)	ASTM D 92	260 (500)
Pour Point	ASTM D5950	-15 (+5)
Penetration unworked, 1/mm	ASTM D217	234-270
Penetration worked, 60 strokes, 1/mm	ASTM D217	280
Penetration worked, 100000 strokes, 1/mm	ASTM D217	380 max
Dropping Point, °C (°F)	DIN ISO 2176	243 (470)
High Temperature Life, hrs at 177°C (350°F)	ASTM D3336	600
Lincoln Ventmeter, psig at 30s	-	
- at 24°C (75°F)		225
- at -1.1°C (30°F)		425
- at -17.8°C (0°F)		750
- at -30°C (-22°F)		(*)

(*) not tested at this temperature

(†) Determined on mineral oil extracted by vacuum filtration

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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