



# Starplex<sup>®</sup> Premium 1

## High performance lithium complex grease

### Product description

Starplex Premium 1 is a high performance lithium complex soap grease formulated with a heavy ISO 460 base stock combined with polymer additive components and is designed for use in heavily loaded equipment operating under adverse conditions.

Starplex Premium 1's formulation provides a tough oil film, contributing to high load carrying performance and protection, and assisting resistance to water washout. This high performance lubricant is enhanced with an extreme pressure package, which helps enhance its natural load carrying performance.

### Customer benefits

- Promotes high resistance to water washout
- Heavy ISO 460 base stock formulation contributes tough oil film performance
- Extreme pressure additives help protect critical components against wear
- Assists in robust rust protection

### Product highlights

- **Contributes high load carrying performance**
- **Promotes water washout resistance**
- **Tough oil film performance**
- **Helps protect against critical wear**
- **Assists rust protection**

#### Selected specification standards include:

DIN

ISO

## Applications

- Starplex Premium 1 is intended for use in heavily loaded equipment operating under adverse conditions. It is especially recommended for grease lubricated bearings on paper machines where its high performance water resistance characteristics, EP properties, oxidation stability and high dropping point eliminates the need for separate greases in the machine's wet end and felt roll bearings. It will also lubricate highly loaded bearings in the press section
- The performance characteristics of Starplex Premium 1 which made it successful in the paper making industry have also enabled it to be used successfully in the steel industry and forestry. The product performs well in roll neck bearings using both sealed and automatic lubrication systems
- The robust combination of load-carrying ability and water resistance makes Starplex Premium 1 a suitable product for the "buddy bearings" commonly found on boat trailer wheels

## Approvals, performance and recommendations

### Performance

	DIN 51 502	ISO 6743-09	Operating temperature
Starplex Premium 1	KP 1N-30	ISO-L-XCDHB1	30 °C up to 150 °C with frequent re-lubrication up to 220 °C

Typical test data		
Test	Test methods	Results
NLGI Grade		1
Product Code		30621
Appearance	-	Dark brown
Penetration worked 60x, mm/10	ASTM D217	325
Thickener type	-	Lithium complex
Base oil type	-	Mineral
Base oil viscosity at 40°C, mm <sup>2</sup> /s	ASTM D445	472
Copper corrosion, 100°C/24hrs	ASTM D4048	1B
Four Ball EP	ASTM D2266	
- Load wear index, kgf		68
- Weld Point, kgf		400
Four Ball wear, mm 1hr at 75°C, 1200 rpm, 40kg	ASTM D2266	0.4

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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