

SYG- 4230 ULTRA HIGH RPM GREASE

SPINDLE BEARING GREASE

Product Description

SYG- 4230 is a high-speed grease with a good pressure absorption capacity. It consists of a combination of ester oil, synthetic hydrocarbon oil and **barium complex soap**. It offers good protection against wear and corrosion and is resistant to water, media and oxidation.

Applications

SYG- 4230 is primarily used for spindle bearings and high-speed plain bearings, e.g. in machine tools and textile machines. Further applications are in threaded spindles, ball screws operating under high loads, running gear bearings, as a long-term grease in cableway bearings and in precision engineering. It may also be used for the lubrication of tooth flanks in precision gears (e.g. bevel gears in milling machines, electromechanical valve actuators). SYG 4230 ensures low starting and running torques.

Benefits

- Tried and tested over many years especially in high-speed applications.
- Excellent resistance to rust, erosion and oxidation.
- Extended re-lubrication intervals.
- Synthetic long-term lubricating grease for a wide service temperature range.
- Longer component life due to optimized wear protection and good pressure absorption capacity.
- Excellent resistance to water and media as well as above-average anticorrosive additives protect bearings against.
- Premature failure, thus helping to minimize repair costs.
- Low intrinsic bearing heat due to low lubricant friction enabling longer service life.
- Uninterrupted machine operation due to good pump ability and metering in customary centralized lubricating systems.

Typical Properties

PROPERTIES	SYG-4230
Upper service temperature	180°C
Lower service temperature	-50°C
Worked penetration, acc. to Klein, 25°C, upper limit value	295 mm
Worked penetration, acc. to Klein, 25°C, lower limit value	265 mm
Speed factor (n x dm)	approx. 1,6 00000 mm/min
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40°C	30 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100°C	5.8 mm ² /s
Oil separation, ASTM D 6184, after 30 h/100	<=3% by weight
Copper corrosion, DIN51811	1
Drop point, DIN ISO 2176	>= 220°C
Corrosion inhibiting properties DIN 51802, (SKF-EMCOR), test duration: 1week, distilled water	NIL
Oxidation stability of lubricating greases, DIN 51808, 100 h/99	<=0.3 bar
Water resistance, DIN 51807	<=1-90
Color	Creamish white
Density at 20°C	0.962 g/cm ³
Structure	Homogeneous
Texture	short-fibred
Thickener	Barium complex soap
Type of oil	Synthetic hydrocarbon oil

Available Packs: 1, 5, 18 and 180 Kg

Tubes: 50, 100, 200 Grams Tube

Shelf Life - 36 Months from the Manufacturing month

* All related specifications are meets or exceeds.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

1. PRODUCT AND COMPANY IDENTIFICATION

Product SYG- 4230 HIGH SPEED RPM GREASE
Supplier PETRELPLUS INC.

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2. COMPOSITION

No harmful substances. Composition of ester oil, synthetic hydrocarbon oil and barium complex soap and proprietary additives.

3. HAZARDS IDENTIFICATION

FIRE -Flammable at high temperature.

HEALTH

Eye contact -May cause mild irritation to the eyes upon direct contact.
 Skin contact -Prolonged contact may defat the skin or can cause dermatitis.
 Inhalation -hazards.
 Ingestion -Harmful if swallowed.

4. FIRST-AID MEASURES

Inhalation -Remove person to fresh air. Seek medical help if discomfort persists.
 Ingestion -Do not induce vomiting. Seek medical support.
 Skin Contact -Immediately flush skin with plenty of water for at least 15 minutes.
 Eye Contact -Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

5. FIRE-FIGHTING METHODS

Extinguishing media -Use dry chemical powder or carbon di – oxide or foam.
 Special protective equipment -Positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURE

Personal protection - Adequate ventilation, gloves, goggles, overalls and boots.
 Environmental precautions - Avoid entry into water courses.
 Clean up method - Absorb on inert material.

7. STORAGE AND HANDLING

Handling - Impervious gloves & eye protection ensure good ventilation. Keep away from source of ignition.
 Storage - Store in a cool & dry place.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory protection - Not required under normal conditions.
 Skin/hand protection - Impervious gloves, overalls, and boots.
 Eye protection - Use Goggles

9. TYPICAL PROPERTIES

Soap - Barium Complex
 Color - Beige
 NLGI - 00
 Drop point, °C - (>= 220°C)

10. STABILITY AND REACTIVITY

Stability - Stable
 Conditions to avoid - Excessive temperatures
 Materials to avoid - Strong oxidizers
 Hazardous decomposition products - Oxides of carbon and nitrogen

11. TOXICOLOGICAL INFORMATION

Skin contact - Possible irritation
Eye contact - Possible irritation
Inhalation - Not applicable
Ingestion - Irritation. May cause lung damage.
Long term effect - Not known

12. ECOLOGICAL INFORMATION

Mobility - Mobile
Degradation - Low
Accumulation -Not expected
Short- & Long-Term effect - Water pollutant

13. DISPOSAL CONSIDERATIONS

Dispose off according to local and national regulations.

14. TRANSPORT INFOMRATION

CPL - Not applicable
IMO -Not applicable

15. REGULATORY INFORMATION

Symbol(s) -Not applicable
Phrase(s) - Not applicable
Phrase(s) - Not applicable

16. OTHER INFORMATION: PRODUCT SAFETY

For safety reasons, it is IMPERATIVE that customer: -Ensure that all those within their control who use the products are supplied with all relevant information contained within the Material Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions or warning.