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**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB/T 5671-2014**

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**General purpose lithium lubricating grease for automobile  
(English Translation)**

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Quarantine**

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### Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard replaced GB/T 5671-1995 General Purpose Lithium Base Grease for Automobile.

Compared with GB/T 5671-1995, this Standard has the major changes as follows.

- Delete "electric generator" in the application scope;
- Add the low temperature torque index; and delete the similar viscosity index;
- In the impurity items; change the number of particles with diameter 10 $\mu$ m above from the original no greater than 5000 pieces/cm<sup>3</sup> into no greater than 2000 pieces/cm<sup>3</sup>; change the number of particles with diameter 25 $\mu$ m above from the original no greater than 3000 pieces/cm<sup>3</sup> into no greater than 1000 pieces/cm<sup>3</sup>; change the number of particles with diameter 75 $\mu$ m above from the original no greater than 500 pieces/cm<sup>3</sup> into no greater than 200 pieces/cm<sup>3</sup>;
- Express the anticorrosive property according to the result expressing mode stipulated in the newly revised GB/T 5018, changing from the original "no more than Grade-1" into "qualified";
- Add the No.3 consistency grades and technical indicators for the No.3 general purpose lithium lubricating grease for automobile;
- Add Chapter 3 Classification and Marking;

--- Add Chapter 5 Inspection Rules.

This Standard is not equivalent to the Japanese Industrial Standard JIS K2220-2003 Class-1 Lubricating Grease for Automobile Wheel Bearing in the aspect of consistency degree.

This Standard was proposed by National Technical Committee for Standardization of Petroleum Products and Lubricants (SAC TC/280).

This Standard shall be under the jurisdiction of Petroleum Products and Lubricants Subcommittee of National Technical Committee for Standardization of Petroleum Products and Lubricants (SAC TC/280/SC 1).

Drafting organization of this Standard. Sinopec petrochemical research institute.

Chief drafting staffs of this Standard. Jiang Liang, and Liu Zhongqi.

The historical editions replaced by this Standard are as follows.

General Purpose Lithium

Lubricating Grease for Automobile

## 1 Scope

This Standard specifies the classification and mark, requirements and test methods, inspection rules, marking, package, transportation and storage of the general purpose lithium lubricating grease for automobile.

This Standard is applicable to the lubricating grease made by adding antioxidant and antirust additives into the fatty acid lithium soap thick mineral base oil.

Products conforming to this Standard are applicable to the lubrication of friction parts such as automobile hub bearings, chassis and water pumps operating at the working temperature ranging from -30°C~120°C.

## 2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 269 Lubricating Grease and Petrolatum - Determination of Cone Penetration

GB/T 4929 Lubricating Grease - Determination of Dropping Point

GB/T 5018 Standard Test Method for Corrosion Preventive Properties of Lubricating Greases

GB/T 7325 Petroleum Products - Lubricating Greases and oils - Determination of Evaporation Loss

GB/T 7326 Lubricating Grease - Corrosiveness to Copper - Copper Strip Test

SH/T 0109 Petroleum Products and Lubricants - Determination of Water Washout Characteristics of Lubricating Greases

SH 0164 Petroleum Products - Package, Storage, Transportation, Delivery and Acceptance Rules

SH/T 0229 Method for Sampling Solid and Semi-Solid Petroleum Products

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