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NATIONAL STANDARD OF THE
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ICS 75.100

E 36

GB/T 7323-2019

Replacing GB/T 7323-2008

Extreme pressure lithium lubricating grease

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Issued on: October 18, 2019

Implemented on: May 01, 2020

Issued by: State Administration for Market Regulation;

Standardization Administration of the People's Republic of
China.

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Extreme pressure lithium lubricating grease

1 Scope

This Standard specifies the classification and marking, requirements and test methods, inspection rules and marking, packaging, transportation and storage of extreme pressure lithium lubricating grease made from fatty acid lithium soap thickened lubricating oil and added with antioxidant and extreme pressure additives.

This Standard applies to lubricating grease for bearings and gears of high-load machinery and equipment with operating temperatures ranging from -20°C ~ 120°C. It also applies to lubricating grease for centralized lubrication systems.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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 determining 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 0048 Determination of similar viscosity of lubricating greases

SH/T 0109 Petroleum products and lubricants - Determination of water washout characteristics of lubricating greases

SH/T 0164 Petroleum and related products packaging, storage, transportation and acceptance of delivery rules

5.1.1 Factory-exit inspection

Factory-exit batch inspection items include: work cone penetration, dropping point, corrosion, oil separation and extreme pressure performance (four-ball machine method) P_B .

Factory-exit cycle inspection items include: evaporation loss, impurity, similar viscosity, extended work cone penetration, water washout loss and oxidation stability, which are inspected every six months; corrosion resistance, extreme pressure performance (Timken method) OK value and low temperature torque, which are inspected once a year.

5.1.2 Type inspection

Type inspection items include all the items in Table 1. Type inspection shall be carried out in one of the following cases:

- a) When a new product is put into production or when product type identification;
- b) When major changes in raw materials, processes, etc., may affect product quality;
- c) When there is a big difference between the factory-exit inspection result and the last type inspection result.

5.2 Batching

Under the condition of the same raw materials and technology, each can or kettle is a group (batch).

5.3 Sampling

Sampling is carried out according to SH/T 0229. 4 kg is taken for inspection and as retention samples.

5.4 Determination rules

If the factory-exit inspection and type inspection results meet the requirements of Table 1, the batch of products is determined to be qualified.

5.5 Re-inspection rules

If the factory-exit inspection results do not meet the requirements of Table 1, it shall take double quantity of samples for re-inspection according to the provisions of SH/T 0229. If there are still non-conforming items in the re-inspection results, the batch of products shall be determined unqualified.

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