

ICS 75.100  
CCS E 36



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

**GB/T 25962-2010**

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**Standard test method for determining the leakage tendencies of  
automotive wheel bearing grease under accelerated conditions**

高速条件下汽车轮毂轴承润滑脂漏失量测定法

**(English Translation)**

**Issued on: January 10, 2011**

**Implemented on: May 1, 2011**

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**Issued by: Standardization Administration of China**

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### Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses redrafted law revision by the United States Society for Testing and Materials standard ASTM D4290-07 "at high speed car wheels Bearing Leakage assay. " this standard removed Chapters 5 and 14 ASTM D4290-07, the other clauses numbered postponed.

This standard ASTM D4290-07 technical differences and the reasons are as follows.

--- Normative references added to our current national standard GB/T 686, GB 1922, GB/T 11121, GB/T 11122, GB/T 11117.2 and industry standard HG/T 2892, due in Chapter 7 presented to the reagent requirements;

--- Cyclopentenone cleaning solvents to acetone because acetone cheaper than cyclopentenone readily available, can be achieved using acetone cleaning member purpose;

--- Deleted ASTM D4290-07 Chapter 5, "meaning and purpose", the contents of which the introduction of this standard;

--- Prepared according to the provisions deleted ASTM D4290-07 Chapter 14 "key words." this standard has been following editorial changes.

--- Delete the contents ASTM D4290-07 informative annex X1.2, the content is the figure in Appendix X1.2 size unit conversion Table, this standard figure size by imperial units in terms of SI units;

--- Figure involved in imperial units converted to SI units.

Appendix A of this standard is an informative annex.

This standard by the National Standardization Technical Committee on products and

lubricant oil (SAC/TC280) proposed.

This standard by the National Standardization Technical Committee Petroleum Products Petroleum Products and Lubricants Technical Committee and lubricants (SAC/TC280/SC1) centralized.

This standard was drafted. China Petroleum & Chemical Corporation Research Institute of Petroleum.

## Introduction

This standard can be used to distinguish have significantly different loss characteristics of high temperature wheel bearing grease. This standard is not equivalent to a long life test.

This has been demonstrated in standard screening dropout tendency automotive wheel bearing grease aspect is helpful.

For a skilled operator, changes in the characteristics of the grease that occurred during the trial observation is possible, such as grease state. Leakage is made Quantitative value of the report, which assessed the state of the grease will be subject to personal judgment difference operator, and can not be effectively used for quantitative Determination.

At high speed automotive wheel bearings Determination of the amount of grease leakage Warning. This standard may involve certain dangerous substances, operations and equipment, this standard does not purport to all safety related to this issue make a suggestion. Therefore, users in the use of this standard to establish appropriate safety and health practices and determine the limits of the relevant rules applicable Versatility.

## 1 Scope

This standard specifies the method for measuring the amount of leakage at high speed automotive wheel bearing grease.

This standard applies to laboratory assessment under specified conditions Leakage automotive wheel bearing grease.

## 2 Normative references

The following documents for the application of this document is essential. For dated references, only the edition are not applicable to the present file. For undated references, the latest edition (including any amendments) applies to this standard.

GB/T 686 chemical reagent acetone (GB/T 686-2008, ISO 6353-2. 1983NEQ) GB 1922 paint and cleaning solvent oil GB/T 11121 gasoline engine oil GB/T 11122 diesel oil GB/T 11117.2 detonation test reference fuel The reference fuel n-heptane HG/T 2892 Chemicals isopropanol (HG/T 2892-1997, neqISO 6353-3. 1987) American Bearing Manufacturers

Association wear standard 19-1974 (American National Standards B.3.19-1975)  
(AFBMA Standard 19 1974 (ANSI B.3.19-1975))

### 3 Terms and Definitions

The following terms and definitions apply to this standard.

#### 3.1 General terms and definitions

##### 3.1.1

Lubricant

Relative motion between the two surfaces can be added to reduce friction or to reduce wear material.

##### 3.1.2

Grease lubricating grease the thickening agent is dispersed in a stable semi-fluid liquid lubricant in the formation of the solid product.

**NOTE:** thickener dispersed to form a two-phase system, and by the surface tension and other physical force liquid lubricant does not flow, the grease generally comprises providing Other ingredients special properties.