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QC

**AUTOMOTIVE INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

QC/T 357-2023

**Wheel nuts with guide shaft
(English Translation)**

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Foreword

This Document was drafted as per the rules specified in GB/T 1.1-2020 Directives for Standardization - Part 1.Rules for the Structure and Drafting of Standardizing Documents.

This Document replaced QC/T 357-1999 Automobile Wheel Nut - Inner Nut. Compared with QC/T 357-1999, the major technical changes of this Document are as follows.

- Raise the tolerance grade of the product from B to A (see Table 2 of this Edition);
- Modify the product name;
- Modify the structure and type of the product (see Figure 1, Figure 2, and Table 1 of this Edition);
- Change the surface treatment from zinc-aluminum-chromium coating to electroless zinc flake coating (see Table 2 of this Edition);
- Cancel the left-hand thread and its rotation direction mark.

This Document was proposed by and under the jurisdiction of National Technical Committee

of Auto Standardization (SAC/TC 114).

Drafting organizations of this Document. Zhejiang Jieneng Auto Parts Co., Ltd.; Hangzhou Shibao Auto Steering Gear Co., Ltd.; Anhui Jianghuai Automobile Group Co., Ltd.; Zhejiang University of Technology; China National Heavy Duty Truck Group Co., Ltd.; Beijing Foton Daimler Automotive Co., Ltd.; and China Automotive Engineering Research Institute Co., Ltd.

Chief drafting staffs of this Document. Guo Fushun, Yu Zhongchao, Jia Meixia, Pu Zhongyu, Jiang Xiangdong, Li Zhong, Yang Wenjiang, and Tang Shuhua.

The historical editions replaced by this Document are as follows.

--- QC/T 357-1999;

--- It is first-time revised hereby.

Wheel Nuts with Guide Shaft

1 Scope

This Document specifies the type, size and technical conditions of wheel nuts with guide shaft

for automobiles with thread specifications of M14 x 1.5 ~ M22 x 1.5 and mechanical property

grade 10.

This Document is applicable to wheel nuts with guide shaft with mechanical property grade 10.

2 Normative References

The provisions in following documents become the essential provisions of this Document through reference in 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) is applicable to this Document.

GB/T 90.1 Fasteners - Acceptance inspection

GB/T 90.2 Fasteners - Marking and packaging

GB/T 196 General purpose metric screw threads - Basic dimensions

GB/T 197 General purpose metric screw threads - Tolerances

GB/T 3077 Alloy structure steels

GB/T 3098.2 Mechanical properties of fasteners - Nuts

GB/T 3103.1 Tolerances for fasteners - Bolts, screws and nuts

GB/T 5779.2 Fasteners - Surface discontinuities - Nuts

QC/T 326 Coding rules for automotive standardized parts

QC/T 625 Metallic coatings and conversion coatings for automobile

3 Terms and Definitions

For the purposes of this Document, no terms and definitions are necessary to be given.

4 Type and Size

The type and size of wheel nuts with guide shaft are shown in Figure 1, Figure 2 and Table 1.

5 Technical Conditions

The technical conditions of wheel nuts with guide shaft are shown in Table 2.

6 Product Number

The product number of the wheel nuts with guide shaft shall be implemented according to the

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