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QC

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

QC/T 343-2023

**Protective cap for nut
(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 531-2001 Car Rearview Mirror. Compared with QC/T 531-2001, the major technical changes of this Document are as follows besides the structural adjustments and the editorial modifications.

- a) Delete the terms and definitions of monitoring mirror, plane mirror, convex mirror, and variable reflectivity rearview mirror (see 3.1.3, 3.2, 3.3, and 3.4 of the 2001 Edition);
- b) Change the general requirements (see 4.1 of this Edition; 4.1 of the 2001 Edition);
- c) Change temperature alternation resistance and test methods (see 4.2.4 and 5.2.4 of this Edition; see 4.2.6 and 5.6 of the 2001 Edition);
- d) Change damp heat resistance and test methods (see 4.2.5 and 5.2.5 of this Edition; see

4.2.5 and 5.5 of the 2001 Edition);

- e) Change light aging resistance and test methods (see 4.2.6 and 5.2.6 of this Edition; see

4.2.7 and 5.7 of the 2001 Edition);

- f) Change the vibration resistance and test methods (see 4.2.8 and 5.2.8 of this Edition; see

4.2.4 and 5.4 of the 2001 Edition);

- g) Add optical vibration and test methods (see 4.2.9 and 5.2.9 of this Edition);
- h) Add interior mirror operational durability and test methods (see 4.2.10 and 5.2.10 of this Edition);
- i) Add exterior mirror folding durability and test methods (see 4.2.11 and 5.2.11 of this Edition);
- j) Add interior mirror odor and test methods (see 4.2.12 and 5.2.12 of this Edition);
- k) Add prohibited substances and test methods (see 4.2.13 and 5.2.13 of this Edition);
- l) Add combustion characteristics and test methods (see 4.2.14 and 5.2.14 of this Edition);
- m) Delete impact cushioning and test methods (see 4.2.8 and 5.8 of the 2001 Edition).

Please note some contents of this Document may involve patents. The issuing agency of this

Document shall not assume the responsibility to identify these patents.

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

of Auto Standardization (SAC/TC 114).

Motor Vehicle Mirrors

1 Scope

This Document specifies the technical requirements, test methods, inspection rules, marking, packaging, transportation, and storage of motor vehicle mirror (hereinafter referred to as "mirrors").

This Document applies to mirror installed on vehicles of Category M and N.

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 191 Packaging - Pictorial Marking for Handling of Goods

GB/T 250 Textiles - Tests for color fastness - Grey scale for assessing change in color

GB 8410 Flammability of automotive interior materials

GB/T 10125-2021 Corrosion tests in artificial atmospheres - Salt spray tests

GB 15084-2022 Motor vehicles - Devices for indirect vision - Requirements of performance and installation

GB/T 30512 Requirements for prohibited substances on automobiles

GB 38262 Flammability of Interior Materials for Buses

QC/T 236 Test method for automotive interior decorative material properties

QC/T 947 Technology standards of auto-dimming rearview mirror for motor vehicle

QC/T 965 Driver of electric rear-view mirrors for motor vehicle

3 Terms and Definitions

For the purposes of this Document, the terms and definitions given in GB 15084-2022 and the

following apply.

3.1 Mirror

Indirect field-of-view devices that obtain a field of view through a reflecting surface.

NOTE: It does not include complex optical systems such as periscopes.

[SOURCE. GB 15084-2022, 3.2]

3.2 Interior mirror

A mirror installed inside a vehicle is used to observe the field of view directly behind the vehicle.

[SOURCE. GB 15084-2022, 3.3]

3.3 Exterior mirror

A mirror installed outside a vehicle is used to observe the field of view behind, to the sides, or

in front of the vehicle.

[SOURCE. GB 15084-2022, 3.4]

4.1 General requirements

4.1.1

The fillet radius, protrusion height, dimensions, reflective surface, and radius of curvature of the mirror shall conform to the provisions of GB 15084-2022.

4.1.2

The surface of the mirror shall be free from defects such as deformation, blurring, bubbles, scratches, cracks, bright spots, black spots, and water ripples, etc.

4.1.3 The surface of the injection-molded parts shall be free from defects such as burrs, breaks,

exposed areas, shrinkage marks, weld lines, and scratches, etc.

4.1.5 The Driver of electric rear-view mirrors for motor vehicles shall conform to the provisions

of QC/T 965.

4.2.1 Radius of curvature

The radius of curvature of the mirror shall conform to the provisions of GB 15084-2022.

4.2.2 Reflectivity

The reflectivity of the mirror shall comply with the provisions of GB 15084-2022.

4.2.3 Impact performance

The impact performance of the mirror shall comply with the provisions of GB 15084-2022.

4.2.4 Temperature alternating

The test shall be conducted according to the method specified in 5.2.4. After the test, the mirror

surface shall not be blurred or aged; and the mirror components shall not exhibit defects affecting the product appearance such as cracking, powdering, visible deformation, stickiness,

or discoloration, etc. All functions shall operate normally.