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**QC**

AUTOMOBILE INDUSTRY STANDARD  
OF THE PEOPLE'S REPUBLIC OF CHINA

**QC/T 531-2001**

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**Car rearview mirror**

汽车后视镜

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# Car rearview mirror

## 1 Scope

This standard specifies the definition, requirements, test methods, inspection rules, marking, packaging of car rearview mirrors.

This standard applies to rearview mirrors installed on categories M and N vehicles.

## 2 Normative references

The provisions contained in the following standards constitute provisions of this standard through reference in this standard. All versions of this standard were valid at the time of publication. All standards are subject to revision and parties using this standard shall explore the possibility of using the latest version of the standard.

GB 15084-1994 Motor vehicles - Rear view mirrors-Requirements of performance and installation

GB/T 15089-1994 Classification of motor vehicles

GB 11614-1999 Float glass

GB 11552-1999 Passenger car - Internal protrusions

QC/T 625-1999 Metallic coatings and conversion coatings for automobile

QC/T 484-1999 Automobile paint coating

## 3 Definition

This standard uses the following definition:

### 3.1 Rearview mirror

A device that can reflect a clear image of the rear of a car within a specified field of view (but does not include complex optical systems such as periscopes). It is generally composed of lenses, retaining parts, direction adjustment parts, brackets, etc.

#### 3.1.1 Interior rearview mirror

Rearview mirror installed inside the car.

### **3.1.2 Exterior rearview mirror**

A rearview mirror installed outside the car.

### **3.1.3 Monitoring mirror**

A rearview mirror mounted on the outside of a car, to monitor the situation below or around the car.

### **3.2 Plane mirror**

Refers to a mirror with a flat reflective surface.

### **3.3 Convex mirror**

It refers to a curved-surface mirror whose reflective surface is spherical or aspherical.

### **3.4 Reflectivity variable rearview mirror**

It refers to an anti-dazzle rearview mirror, that can reduce reflectivity when driving at night and is affected by the glare of the headlights of following vehicles. Prisms also fall into this category.

## **4 Requirements**

**4.1** The rearview mirror shall be easy to be adjusted and maintained in the normal direction of use. In normal use, each component must not have sharp protrusions.

### **4.2 General requirements**

Rearview mirror retainers, brackets and other parts need to be subject to anti-glare treatment.

**4.2.1** The bracket of the rearview mirror shall be able to install and maintain it in the normal use position. If necessary, it shall be equipped with an impact buffer mechanism.

**4.2.2** Variable reflectivity rearview mirrors shall have a mechanism to switch reflectivity between day and night.

**4.2.3** The glass used in the rearview mirror must comply with the mirror-making grade requirements of GB 11614.

**4.2.4** Other requirements shall comply with the requirements of 4.1 in GB 15084.

### **4.3 Appearance requirements**

**4.3.1** Under the illumination condition of 500 lx, at a distance of 500 mm from the naked eye, when observing the mirror surface from a 45° direction, there shall be no

provisions of 5.7, the mirror surface shall not be blurred or aged; other parts shall not cause obvious fading, cracks, deformation and other defects.

#### **4.4.8 Impact buffering performance**

##### **4.4.8.1 Necessary conditions**

The impact buffering performance of the rearview mirror means that when the rearview mirror is installed according to the actual vehicle condition; the interior rearview mirror shall meet the performance specified in 4.4.8.2; the exterior rearview mirror and surveillance mirror shall meet the performance specified in 4.4.8.3. This article does not apply to the following aspects.

**4.4.8.1.1** For the interior rearview mirror, it is located outside the collision area of the occupant's head in GB 11552.

**4.4.8.1.2** External rearview mirrors and surveillance mirrors:

- a) Located within the outermost line of the vehicle body near the mounting base;
- b) When the vehicle is fully loaded, the bottom edge of the exterior rearview mirror and surveillance mirror is more than 1800 mm from the ground;

##### **4.4.8.2 Impact buffering of interior rearview mirror**

When the interior rearview mirror is tested according to the impact test method in 5.8.1, the pendulum falls freely from a position of 60° relative to the plumb line and hits the interior rearview mirror on a vertical plane, which is parallel to the longitudinal centerline of the vehicle. The swing angle of the hammer relative to the plumb line shall not be less than 20°. If any parts are damaged, there must be no sharp protrusions.

Other relevant requirements shall comply with the provisions of GB 15084.

##### **4.4.8.3 Impact buffering of exterior rearview mirrors and surveillance mirrors**

When the exterior rearview mirror and surveillance mirror are tested according to the impact test method in 5.8.2, the pendulum falls freely from a position of 60° relative to the plumb line and hits the rearview mirror on a vertical plane, which is parallel to the longitudinal centerline of the vehicle. The swing angle of the pendulum relative to the plumb line shall not be less than 20°. If any parts are damaged, there must be no sharp protrusions.

Other relevant requirements shall comply with the provisions of GB 15084.

#### **4.4.9 Corrosion resistance**

The anti-corrosion coating (plating) layer of the rearview mirror shall comply with the following requirements.

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