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**The Safety Technique  
Specifications of Multi-Purpose Minivan**

多用途面包车安全技术条件

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# The Safety Technique Specifications of Multi-Purpose Minivan

## 1 Scope

This Standard specifies the terms and definitions, basic technical requirements for operational safety and test methods of the multi-purpose minivan.

This Standard is applicable to all multi-purpose minivans on China's road.

This Standard is not applicable to the battery electric multi-purpose minivan.

## 2 Normative References

The following documents are essential to the application of 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) are applicable to this document.

GB/T 9969 General Principles for Preparation of Instructions for Use of Industrial Products

GB 11551-2014 The Protection of the Occupants in the Event of a Frontal Collision for Motor Vehicle

GB 15083 Strength Requirement and Test of Automobile Seats their Anchorages and any Head Restraints

GB 17578 Requirements and Test Methods of Strength for the Superstructure of Bus

GB 20071 The Protection of the Occupants in the Event of a Lateral Collision

GB 20072 The Requirements of Fuel System Safety in the Event of Rear-End Collision for Passenger Car

GB 21670 Technical Requirements and Testing Methods for Passenger Car Braking Systems

GB 26134-2010 Roof Crush Resistance of Passenger Cars

#### **4.3 Requirements for Tyre**

The nominal section width of the tyre shall be 165mm and above.

#### **4.4 Requirements for anti-lock braking system**

The vehicle shall be equipped with anti-lock braking system.

#### **4.5 Requirements for seat belt**

All driver and passenger seats shall be equipped with a three-point (or full-strap) car seat belt.

#### **4.6 Requirements for seat**

**4.6.1** The strength of all seats and seat fixtures shall meet the requirements of GB 15083.

**4.6.2** The seats shall be arranged as uniform as possible; the distance between the seats in the same direction shall be no less than 600mm and no greater than 1000mm. Thereof, the seats in the passenger carriage of Type-B multi-purpose minivan shall be rigidly connected to the floor, fixed firmly; no flip-up seats are allowed to use here.

**4.6.3** All seats and seats arrangement of Type-B multi-purpose minivan shall meet the requirements for ride comfort; the seat cushion depth is  $\geq 440$ mm; seat cushion width  $\geq 440$ mm; the seat spacing is  $\geq 670$ mm; the backrest height is  $\geq 680$ mm.

#### **4.7 Requirements for other electrical devices**

It shall be equipped with seat belt wearing reminder device for the driver; when the driver fails to wear the seat belt, it shall be able to alarm through visual and audible signals.

#### **4.8 Other requirements**

It shall meet other relevant mandatory standards requirements.

## **5 Safety Requirements**

### **5.1 Frontal collision requirements**

#### **5.1.1 Technical requirements**

**5.1.1.1** The dummy in the outside front-row seat and in the middle row seats (for the vehicle with four-row seats, the middle row indicates the second and the third row of seats) shall meet the requirements of 4.2.2 in GB 11551-2014 according to the

Hybrid III dummy. Place a dummy that meets the requirements in the rear row seat; the dummy shall meet the technical requirements and corresponding adjustable requirements of 5% Hybrid III female dummy. In order to record the necessary data and facilitate to confirm the performance index, the dummy shall be equipped with a measurement system that meets the technical requirements of Appendix D in GB 11551-2014 (except for the 5% Hybrid III female dummy).

- b) The restraint system set by the manufacturer shall be used.
- c) The test vehicle shall use the dummy to carry out counterweight; it shall verify the state of the dummy that ride on the vehicle; the weight of the counterweight dummy shall be consistent with the weight of 50% Hybrid III dummy.

#### **5.1.3.3 Vehicle drive**

The vehicle drive shall meet the requirements of 5.3 in GB 11551-2014.

#### **5.1.3.4 Test speed**

The test speed shall meet the requirements of 5.4 in GB 11551-2014.

#### **5.1.3.5 Measurement made on the vehicle**

The measurement made on the vehicle shall meet the requirements of 5.6 in GB 11551-2014.

### **5.2 Safety requirements for lateral collision**

It shall meet the safety requirements for lateral collision specified in GB 20071.

### **5.3 Safety requirements for fuel system in rear collision**

It shall meet the safety requirements for fuel system in rear collision specified in GB 20072.

### **5.4 Requirements for top strength**

#### **5.4.1 Top strength requirements for Type-A vehicle**

Perform the test according to the requirements specified in Clause 5 of GB 26134-2010; when applying load on any side of the front edge of the roof; the movement of the lower surface of the loading device shall not exceed 127mm. The size of the load shall be 3 times of the Kerb mass of the vehicle. Both the left and right front of the roof structure shall meet the requirements. For vehicles with a symmetrical body structure, after testing one side, the other side does not have to be tested. The test device shall meet the requirements of Clause 4 in GB 26134-2010; test procedures shall meet the requirements of Clause 5 in GB 26134-2010.

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