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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 43.020

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GB/T 12782-2007

Replacing GB/T 12782-1991

Motor vehicle - Heating performance requirement - Test method

汽车采暖性能要求和试验方法

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Issued on: April 30, 2007

Implemented on: December 1, 2007

**Issued by: General Administration of Quality Supervision, Inspection
and Quarantine;**

Standardization Administration Committee.

Table of Contents

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Performance requirement.....	4
5 Test conditions.....	5
6 Test method.....	5
7 Test result.....	7
Annex A (Informative) Motor vehicle heating performance test record.....	8

Foreword

This Standard replaces GB/T 12782-1991 Motor vehicle - Heating performance - Test method. The main modification differences are as follows:

- modified the name of the standard to “Motor vehicle - Heating performance requirement - Test method”;
- considering the operability of the test, this Standard added to use the ambient temperature of $(-15 \pm 2)^{\circ}\text{C}$ when it measures the heating performance of motor vehicle; the time was modified from 40 min to 40 min and 35 min when it reaches to performance requirement;
- deleted the term of “measure the location of the temperature” while directly used “measure the position of the temperature”; added the measurement method of “measure the position of the temperature”;
- specified that the test sample vehicle is kerb mass state, empty-loaded; the number of passenger is 2~3;
- in order to ensure the clear windshield sight and heating effect, warm air outlet position shall be adjusted according to the actual situation;
- the previous edition requires that the test be conducted once and for all, and the test result takes the average value; this revision deleted this sub-clause.

Annex A of this Standard is informative.

This Standard was proposed by National Development and Reform Commission.

This Standard shall be under the jurisdiction of National Technical Committee on Automobiles of Standardization Administration of China.

The drafting organization of this Standard: National Automobile Quality Supervision and Inspection Center (Xiangfan).

Main drafters of this Standard: Xiong Gongxiang, Zuo Tao.

Versions of standard substituted by this Standard are:

- GB 1334-1977;
- GB/T 12782-1991.

Motor vehicle - Heating performance requirement - Test method

1 Scope

This Standard specifies the heating performance requirement and test method of motor vehicle.

This Standard applies to all kinds of motor vehicles.

2 Normative references

The following standards contain the provisions which, through reference in this Standard, constitute the provisions of this Standard. For dated references, subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 12534, *Motor vehicles - General rules of road test method*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

Measure the position of the temperature

the installation site of temperature sensor

4 Performance requirement

When the test is carried out for 40 min at an ambient temperature of $(-25 \pm 3)^{\circ}\text{C}$ or it is carried out for 35 min at an ambient temperature of $(-15 \pm 2)^{\circ}\text{C}$, the heating performance of motor vehicle shall meet the following requirements:

- a) the feet temperature of driver and second driver shall not be less than 15°C ;

- b) the feet temperature of passenger shall not be less than 12°C;
- c) the head temperature of driver and second driver shall be (2~5)°C lower than the feet temperature.

5 Test conditions

5.1 Test instrument

5.1.1 Multi-point thermometer, measuring range: (-50 ~ +100)°C; precision of 0.5°C.

5.1.2 Wind speed and wind direction meter, measuring range: 1 ~ 10) m/s; precision of 0.5 m/s.

5.2 Test environment

The test shall be carried out in rain-free weather, ambient temperature: (-25 ± 3)°C, or (-15 ± 2)°C, wind speed not more than 3 m/s.

5.3 Test vehicle

5.3.1 The test vehicle shall be at the complete vehicle kerb mass with 2 ~ 3 passenger.

5.3.2 Before the test, start the starter till the engine coolant temperature is stable.

5.3.3 Install a motor vehicle with separate burner heater. Ignite the heating device 10 mm prior to the test to pre-heat.

5.4 Other test conditions and preparation of test vehicle shall be in accordance with the provisions of GB/T 12534.

6 Test method

6.1 Determination of measure the position of the temperature

6.1.1 Measure the position of the temperature of driver's head: 20 mm of outside of driver's left ear.

6.1.2 Measure the position of the temperature of driver's feet: 100 mm from inner wall of passenger cabinet, 20 mm from floor surface, 500 mm from measure the position of the temperature of driver's head at front and back.

6.1.3 Measure the position of the temperature of second driver's head: 20 mm of outside of driver's right ear.

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