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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 12537-1990

Motor vehicles--Towing performance--Test method

汽车牵引性能试验方法

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Foreword

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

Replacing GB 1334-77

Motor vehicles - Towing performance - Test method

1 Subject content and scope of application

GB/T 12537-1990 is the Chinese national standard on motor vehicles--towing performance--test method, in the field of road vehicles engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 12 December 1990 by the State Bureau of Technical Supervision, and has been in force since 1 September 1991. Classification: ICS 43.020, CCS T04. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the test method for determining the towing performance of motor vehicles. This standard applies to the motor vehicles, which have towing function.

2 Normative references

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

3 Terms 3.1 Traction force of towing hook

The traction force measured on the towing hook, when the motor vehicle is driving at a

constant speed on a level road.

4 Test equipment and instruments 4.1 Load trailer or general trailer that can apply load.

4.2 Traction rod.

4.3 The automatic recording traction meter, AND the traction force sensor, which has appropriate range, the measurement accuracy is 2%.

4.4 Speed measuring instrument, which has a measuring accuracy of 1%.

4.5 Fuel flow meter, which has a measurement accuracy of 1%.

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4.6 Timer, which has a minimum reading of

0.1 s.

5 Test conditions 5.1 The test vehicle shall be loaded, according to the loading mass under the towing condition, which is specified by the manufacturer.

5.2 When determining the maximum traction of towing hook, the tire pressure of the test vehicle shall not be less than the minimum tire pressure, which is specified by the manufacturer.

5.3 Other test conditions shall be carried out in accordance with the provisions of GB 12534.

6 Test methods 6.1 Traction performance test

6.1.1 Use the traction rod to connect the test vehicle and the load trailer. The traction rod shall be kept horizontal. If a general trailer is used, the aforementioned connection method shall also be used. During the test, the longitudinal axis of the traction rod is consistent with the driving direction.

6.1.2 When the motor vehicle starts, accelerate and shift to the gear required for the test; fully open the throttle, to accelerate to about 80% of the maximum speed of the gear. The load trailer applies load. Within the speed range of engine during normal operation, measure 5 ~ 6 evenly spaced stable speed AND the traction force of towing hook at that speed. During measurement, the vehicle speed must be stable for more than 10 s. The above procedures are performed once for each round trip. The test data is recorded in the record sheet of traction performance test. When measurement of fuel consumption is used as one of the test contents, install a fuel flow meter on the test vehicle, to measure the fuel consumption. Meanwhile, use a timer to measure the time; record the test results in the sheet.

6.1.3 According to the recorded actual vehicle speed and traction force of towing hook,

draw the traction performance curve of each gear. The ratio is as follows: In the performance curve, each 1 mm of vehicle speed is equivalent to

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