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

GB/T 47181-2026

**Inspection rules for atmospheric pressure metal tanks of road
tank vehicles for the transport of liquid dangerous goods**

道路运输液体危险货物罐式车辆金属常压罐体检验规则

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Hazardous Chemicals Management (SAC/TC 251). This document was drafted by: China Federation of Logistics and Purchasing, Highway Research Institute of the Ministry of Transport, and Zhejiang Special Equipment Research Institute. Guangzhou Special Equipment Inspection and Research Institute, China Special Equipment Inspection Association, China Classification Society Quality Certification Company, China Petroleum and Chemical Industry Federation Hubei Special Equipment Inspection and Testing Institute, Xi'an Special Equipment Inspection and Testing Institute, Changzhou Kaipeng Hydraulic Equipment Co., Ltd., Hebei Guangde Tank Valve Technology Co., Ltd., Maoming Testing Institute of Guangdong Special Equipment Inspection and Research Institute, Hubei Fuzhi Automobile Co., Ltd., Hubei Dongte Special Equipment Co., Ltd. Limited Liability Company, Shandong Qilu Logistics Co., Ltd., Shandong Taiyang Special Equipment Testing Technology Co., Ltd., CIMC Vehicles (Jiangmen) Co., Ltd. Yingkou Boiler and Pressure Vessel Inspection and Research Co., Ltd., Wuhu CIMC Ruijiang Automobile Co., Ltd., Sichuan Special Equipment Inspection and Research Institute Sinopec Chemical Logistics Co., Ltd., Yangzhou CIMC Tonghua Special Vehicle Co., Ltd., Weifang Special Equipment Inspection and Research Institute, Jiangsu Provincial Special Equipment Inspection and Research Institute Safety Supervision and Inspection Research Institute. The main drafters of this document are. Liu Yuhang, Ren Chunxiao, Lou Hongjun, Xiao Chaobo, Cai Zhiyang,

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1 Scope

GB/T 47181-2026 is the Chinese national standard covering inspecting a road tanker barrel - the periodic examination of the shell and baffles, the thickness and corrosion, the valves and vents, the leak and hydraulic testing, and the criteria for taking a tank out of service. First edition, 19,000 words, in force since 1 June 2026. It was issued on 27 February 2026 and has been in force since 1 June 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the general requirements for the inspection of metal atmospheric pressure tank bodies of tank vehicles used for road transport of liquid hazardous goods, including factory inspection and periodic inspection. Requirements for verification, attachment verification, inspection records and conclusions, inspection reports and certificates. This document applies to inspection agencies conducting inspections of atmospheric pressure metal tanks (including connected pipelines) in tank vehicles transporting liquid hazardous goods by road. The factory inspection, periodic inspection and attachment verification of the attachments.

Note. Unless otherwise noted, the term "metal atmospheric pressure tank body for road transport of liquid dangerous goods in tank vehicles" in this document is abbreviated as "tank body".

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 150 (All Parts) Pressure Vessels

GB/T 12243 Spring-loaded safety valve

GB 13392 Road transport vehicle markings for dangerous goods

GB 18564.1 Tank Vehicles for Road Transport of Liquid Dangerous Goods - Part

2.1 Occupational Exposure Limits for Hazardous Factors in the Workplace Part

1. Chemical Hazardous Factors GBZ 230 Classification of Occupational Exposure to Toxic Substances

HG/T 20660 Classification Standard for Toxicity Hazards and Explosion Hazards of Chemical Media in Pressure Vessels JT/T 617.3 Road Transport Rules for Dangerous Goods Part

3. Index of Commodity Names and Transport Requirements JT/T 617.4 Road Transport Rules for Dangerous Goods Part

4. Requirements for Transport Packaging NB/T 47013.2 Non-destructive testing of pressure equipment - Part

2. Radiographic testing NB/T 47013.3 Non-destructive testing of pressure equipment - Part

3. Ultrasonic testing NB/T 47013.4 Non-destructive testing of pressure equipment - Part

4. Magnetic particle testing NB/T 47013.5 Non-destructive testing of pressure equipment - Part

5. Penetrant testing NB/T 47013.7 Non-destructive testing of pressure equipment - Part

3 Terms and Definitions

The terms and definitions defined in GB 18564.1 and the following terms and definitions apply to this document.

3.1 volume The maximum volume of water that the tank can hold at room temperature.

[Source: GB 18564.1-2019, 3.6]