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

JT/T 1285-2020

**Safety technical specifications for commercial vehicles for road
transport of dangerous goods
(English Translation)**

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1 Scope

This Standard specifies the classification and basic requirements, general requirements, special requirements and other safety technical requirements and test methods of vehicles for road transport of dangerous goods.

This Standard is applicable to the commercial vehicles such as Type-N vehicles, Type-

O semi-trailers, semi-trailer tractors and semi-trailer trains consist semi-trailers that are engaged in the road transport of dangerous goods. Non-commercial vehicles can be used as reference.

This Standard is not applicable to mobile explosives manufacturing units whose purpose is to manufacture explosives on-site.

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) is applicable to this document.

GB/T 4208 Degrees of Protection Provided by Enclosure (IP Code)

GB 7258 Technical Specifications for Safety of Power-driven Vehicles Operating on Roads

GB 8624 Classification for Burning Behaviour of Building Materials and Products

GB 11567-2017 Motor Vehicles and Trailers-Lateral and Rear Underrun

Protection Requirements

GB 11806 Regulations for the Safe Transport of Radioactive Material

GB 12676 Technical Requirements and Testing Methods for Commercial Vehicle and Trailer Braking Systems

GB/T 17619 Limits and Methods of Testing for Immunity of Electrical / Electronic Sub-Assemblies in Vehicles to Electromagnetic Radiation

JT/T 1178.2-2019 Safety Specification for Commercial Vehicle for Cargos Transportation - Part 2: Towing Vehicle and Trailer

JT/T 1242 Performance Requirements and Test Procedures for Advanced Emergency Braking System of Commercial Vehicle

QC/T 453 Compartment - Panel Van

3 Terms and Definitions

For the purposes of this document, the terms and definitions given in JT/T 1178.1-2018, JT/T 1178.2-2019, JT/T 617.1 and GB 21668 and the following apply.

3.1 Dangerous goods

Substances or articles that meet to classification requirements in JT/T 617.2, or listed in JT/T 617.3 with dangerous characteristics such as explosion, flammability, poisoning, infection, corrosion or radioactivity.

3.2 Motor vehicles for dangerous goods transport

The vehicles that are designed and manufactured to carry dangerous goods or tow dangerous goods semi-trailers.

3.3 Vehicles for dangerous goods transport

Motor vehicles for dangerous goods transport and semi-trailers and semi-trailer trains that are designed and manufactured for the dangerous goods transport.

NOTE: Rewrite GB 7258-2017, definition 3.5.

3.4 EX/II vehicles and EX/III vehicles

Vehicles for dangerous goods transport that are used to transport explosives and have a loading limit that meets the requirements of GB 21668.

3.5 FL type vehicles

Vehicles for dangerous goods transport that are used to transport flammable gases, flammable liquids with a flash point no higher than 60°C, automotive diesel that meets the requirements of GB/T 19147, or oil products listed in the United Nations Number

UN 1202. Its cargo container is tank vehicles, tank containers or movable tanks, the volume of the container shall be greater than or equal to 3m³.

NOTE: Rewrite 21668-2008, definition 3.4.

6.1.2 Semi-trailer tractor for dangerous goods transport and motor vehicles for

dangerous goods transport with a total mass greater than or equal to 12000kg shall be equipped with an electronic stability control system (ESC). The performance of the electronic stability control system shall comply with the provisions of Appendix A in

JT/T 1094-2016; and the electromagnetic compatibility shall comply with the provisions of Level-3 in GB/T 18655 and GB/T 17619.

6.1.3 The rear axle (non-steering axle) of the semi-trailer tractor for dangerous goods

transport, the rear axle of the motor vehicles for dangerous goods transport with a total mass greater than or equal to 12000kg, and all the axles of semi-trailer for dangerous goods transport shall be equipped with air suspension.

6.1.4 For semi-trailer tractors for dangerous goods transport and motor vehicles for

dangerous goods transport with a total mass greater than or equal to 12000kg, the wheels with single tires shall be equipped with a tire pressure monitoring system (TPMS) or a device with tire pressure monitoring function. The performance of TPMS or a device with tire pressure monitoring function shall comply with the provisions of

Appendix B in JT/T 1178. 2-2019; and the electromagnetic compatibility shall meet the requirements of Level-3 in GB/T 18655 and GB/T 17619.

6.1.5 For semi-trailer tractors for dangerous goods transport and motor vehicles for the

dangerous goods transport with a total mass of more than 3500kg, the steering wheels shall be equipped with emergency safety devices for tyre bursts, which shall be marked in an easily visible positions of the driver's cab. The performance and test methods of the emergency safety device for tyre bursts shall meet the requirements of Appendix

A in JT/T 1178.1-2018.

6.1.6 Motor vehicles for dangerous goods transport shall be equipped with on-board terminals of the satellite positioning system for road transportation vehicles that meet the requirements of JT/T 794.

6.2 Brake system

6.2.1

The steering wheels of the motor vehicles for dangerous goods transport and all the wheels of the semi-trailer for dangerous goods transport shall be equipped with disc brakes. When the lining of the service brake needs to be replaced, an acoustic or optical alarm device shall be used to alert the driver, and the alarm signal shall meet the requirements of GB 12676.

6.2.2 Semi-trailer tractors and semi-trailers for dangerous goods transport, and motor

vehicles for dangerous goods transport with a total mass greater than or equal to 12000kg shall be equipped with an electric braking system (EBS).

6.2.3 N2 and N3 types motor vehicles for dangerous goods transport shall be equipped with retarders or other auxiliary braking devices. The performance of the equipped retarder or auxiliary braking device shall enable the vehicle to pass the IIA type test

7.1.6 It is strictly forbidden to lay electrical wiring in the cargo compartment of EX/II and EX/III vehicles.

7.1.7 The electrical devices installed in the cargo compartment shall have at least the IP45 degree of protection specified in GB/T 4208. If the vehicle bearing range includes goods in assembly group J specified in JT/T 617.6, the protection capacity shall be at least IP65 or equivalent protection measures.

7.1.8 The eddy current retarder shall not be used on the EX/II and EX/III trucks.

7.2.1 Requirements for entire tank vehicles

7.2.1.1

The structures of FL, OX and AT types vehicles shall meet the requirements of GB 21668.