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Replacing GB 20300-2006

Safety specifications for road transportation vehicle of explosive substance and chemical toxic substance

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Foreword

All technical contents of this standard are mandatory.

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB 20300-2006 "Safety specifications for road transportation vehicle of explosive substance and chemical toxic substance". Except for editorial modification, the main technical differences of this standard in comparison with GB 20300-2006 are as follows:

- Modified the definition of explosive substance in Chapter 3 Terms and definitions (see 3.1);
- Modified of the definition of highly toxic chemicals in Chapter 3 Terms and definitions (see 3.2);
- The effective volume of the tank was changed to the volume of the tank, in Chapter 3 Terms and definitions; the definition is unchanged (see 3.3);
- Modified requirements for exhaust system (see 4.1.3);
- Modified the requirements of tires (see 4.1.4);
- Modified the requirements of the speed limit device, adding the requirement of compliance with GB/T 24545 for speed limiting function or the speed limit device. Modified and set the maximum speed at 80 km/ h (see 4.1.5);
- Modified the requirements of the braking device, deleting the requirement that all the vehicles which must be equipped with the brake automatic clearance adjusting arm (see 4.1.6);
- Modified the requirements for the electrical device, adding that the electrical device shall comply with the requirements of GB 21668 (see 4.1.7);
- Deleted the requirement for the height of center of mass in the dimension parameter(see 4.2.2);
- Added requirements for vehicle side tilt angle (see 4.2.3);
- Modified tank volume requirements (see 4.2.5);
- Modified requirements for the protection of tanks and accessories (see 4.2.6.1);
- Added requirements for the fifth wheel and the coupling of tractors and full trailers (see 4.2.8);

Safety specifications for road transportation vehicle of explosive substance and chemical toxic substance

1 Scope

This standard specifies the terms and definitions, requirements, signs and accompanying documents of road transportation vehicle of explosive substance and chemical toxic substance.

This standard is applicable to the road transportation motor vehicle and trailer vehicle of explosive substance and chemical toxic substance.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB 1598 Limits of dimensions, axle load and masses for motor vehicles, trailers and combination vehicles

GB/T 4208-2008 Degrees of protection provided by enclosure (IP code)

GB/T 4606 Road vehicles. 50 semi-trailer fifth wheel coupling pin. Basic and mounting/interchangeability dimensions

GB/T 4607 Road vehicles. 90 semi-trailer fifth wheel coupling pin. Basic and mounting/interchangeability dimensions

GB 4781 Commercial road vehicles. 50mm drawbar eye. Interchangeability

GB 7258-2012 Safety specifications for power-driven vehicles operating on roads

GB/T 8416-2003 Surface colors for visual signalling

GB 12268 List of dangerous goods

GB 13365 Spark arrester

4.2.5 Capacity of tank

The capacity of tank vehicle carrying explosive substance shall not exceed 20 m³. The capacity of tank vehicle carrying chemical toxic substance shall not exceed 10 m³.

4.2.6 Protective requirements for tanks and accessories

4.2.6.1 The pipes and fittings on tank and the tank itself shall not exceed the side protection devices and lower rear protective devices of the vehicle. The distance between the outer side of the pipes and fittings on the tank rear seals and the tank rear seals and vertical projection of the inner side of the rear and lower side of the protective device in the direction of the vehicle length shall be greater than or equal to 150 mm.

4.2.6.2 The top of the tank shall be provided with a capsizing protection of sufficient strength, which shall contain a discharge valve capable of discharging the liquid accumulated in the tank. The top points of fittings, valves and other accessories in the tank shall be at least 20 mm below the highest point of the capsizing protection.

4.2.7 Basic requirements of cargo compartment

4.2.7.1 The cargo compartment structure is closed with fire-proof, rain-proof, anti-theft function and certain strength and rigidity. The inside skin of the cargo compartment shall be made of non-ferrous metal or non-metallic material which is not easy to ignite. The space between the outer skin and the inner skin on the wall of the cargo compartment shall be filled with flame-resistant and heat insulation material. Ventilation windows with rain-proof function shall be provided for the side wall or front and rear walls of the cargo compartment.

4.2.7.2 The cargo compartment doors shall be fitted with sealing strips. The sealing strips shall be firm and reliable, rain-proof and dust-proof.

4.2.7.3 The door hinges of the cargo compartment shall be fixed and rotating freely. The latching mechanism shall be safe and reliable.

4.2.7.4 No lighting or electrical wiring shall be installed in the cargo compartment.

4.2.7.5 The cargo compartment shall be equipped with cargo fixing and fastening devices. A certain number of fixed rope hooks shall be arranged on the front wall and side wall of the cargo compartment.

4.2.7.6 The cargo fire alarm shall be equipped in the cargo compartment. The anti-theft alarm shall be set up on the door of the cargo compartment. the total quantity shall be large. For vehicles with the total mass higher than or equal to

A dry powder fire extinguisher shall be provided in the cab. Each side of the vehicle shall be fitted with one fire extinguisher in accordance with the performance of the loaded medium. The fire extinguisher shall be fixed firmly and easily accessible.

4.2.11 Driving recorder

4.2.11.1 The installation of driving recorders for vehicles shall comply with the relevant requirement of 8.6.5 in GB 7258-2012.

4.2.11.2 Driving recorders shall be installed inside the cab where data can be viewed and extracted by the user.

4.2.11.3 The main power source of driving recorder shall be the vehicle power. All wires shall be properly protected so as to ensure that these wires do not touch the components that may cause insulation damage. They shall be arranged neatly and reliably.

4.2.12 Vehicle terminal of monitor

4.2.12.1 The vehicle shall be fitted with a vehicle terminal of Global Positioning System (GPS) complying with the requirements of JT/T 794.

4.2.12.2 The GPS vehicle terminals shall be installed in the cab or in the appropriate location of the trailer as required.

4.2.12.3 The main power source for the GPS vehicle terminal shall be the vehicle power supply. When the vehicle power supply is not available, it can be supplied by the spare battery pack of the vehicle terminal, which can support normal working for 8 hours. The wire of power supply shall be clearly identified by different colors or marks (marked at equal intervals). The wiring shall be neatly arranged and fixed reliably. The antenna shall be away from other sensitive electronic equipment. The ground wire of the vehicle terminal shall be connected to the chassis of the vehicle.

4.2.13 Other requirements

There shall be space for emergency facilities and appliance to place emergency facilities within the cab.

5 Marks

5.1 The vehicle shall be fitted with signs (see Appendix A for pattern) and lamps that conform to the requirements of GB 13392.

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