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

GB 25527-2010

**Mine site mixed and charged explosive trucks - Safety
requirements**

矿用混装炸药车 安全要求

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Foreword

Chapter 3 of this standard are recommended, the rest are mandatory. The standard proposed by China Machinery Industry Federation. This standard by the National Mining Machinery Standardization Technical Committee (SAC/TC88) centralized. This standard was drafted. Luoyang Mining Machinery Engineering Design Institute Co., Ltd., Shanxi Huifeng Automobile Co. Ltd. The main drafters of this standard. Li Yang, now, Pingyou Jing, Qin Qisheng, Wang Yadong, Guo Ming. This standard is the first release. Mining explosives mixed car safety requirements

1 Scope

GB 25527-2010 is the Chinese national standard on mine site mixed and charged explosive trucks - safety requirements, in the field of mining and minerals. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 1 December 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 October 2011. Classification: ICS 73.100.30, CCS D92. 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 list of dangerous mining explosives mixed cars, safety requirements and/or measures and determination, usage information. The standard physical properties and intended use in terms of mining explosives mixed car proposed restrictions. Safety requirements specified in this standard apply Dangerous various stages of the life of the machine resulting in GB/T 15706.1 stipulated. This standard does not relate to the hazard and GB/T 15706.1, GB/T 15706.2 agreement on a common mechanical, electrical, hydraulic, pneumatic And other dangerous devices, are not included in this standard. This standard applies to all kinds of surface and underground mine site mixed explosives used vehicle (hereinafter referred to as mixed vehicles), including on-site mixed emulsion Explosives vehicles, site mixed granular ANFO car, site mixed heavy ANFO car.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1251.1 Ergonomics public places and work areas - Auditory danger signal danger signal (GB/T 1251.1- 2008, ISO 7731.2003, IDT)

GB 1589 road vehicles outside dimensions, axle load limits and quality

GB/T 3766 Hydraulic System General technical conditions (GB/T 3766-2001, eqv ISO 4413.1998)

GB 4208-2008 housing protection (IP Code) (IEC 60529.2001, IDT)

GB 5226.1 mechanical and electrical safety of machinery - Electrical equipment - Part 1. General requirements (GB 5226.1-2008, IEC 60204-1.2005, IDT)

GB/T 9969 General Instructions industrial products GB/T 13306 signs

GB 13365 motor vehicle exhaust spark arrestor

GB/T 15706.1 Safety of machinery - Basic concepts, general principles for design - Part 1. Basic terminology and methods (GB/T 15706.1- 2007, ISO 12100-1.2003, IDT)

GB/T 15706.2 Safety of machinery - Basic concepts, general principles for design - Part 2. Technical principles (GB/T 15706.2-2007, ISO 12100-2.2003, IDT)

GB 16423 metal and nonmetal mine safety rules

GB 17888.2 Safety of machinery stationary facilities - Part 2. Working platforms and gangways (GB 17888.2-2008, ISO 14122-2.2001, IDT)

GB 17888.3 Safety of machinery stationary facilities - Part 3. Stairs, steps and guardrails (GB 17888.3- 2008, ISO 14122-3.2001, IDT)

GB 50089-2007 civilian blasting equipment engineering safety regulations JT230 cars guided static rubber drag strip "Civilian blasting equipment production equipment for safe use of life regulations" National Defense (2007) "Cars scrapped" Economic and Trade Commission (1997)

3 Danger List

Mixed vehicle lifetime risk that may arise in the transportation, installation, use and maintenance process are shown in Table 1. Table

4.1 General Requirements

4.1.1 mixed vehicle safety measures intended to be used should be consistent with the relevant requirements of GB/T 15706.1 of.

4.1.2 Mixed loading vehicle according to the conditions of use shall comply with the provisions of GB 16423.

4.1.3 Mixed loading vehicle should ensure that the ambient temperature $\pm 40\text{ }^{\circ}\text{C}$, relative humidity less than 90% of the normal work environment, and not dangerous.

4.1.4 mixed vehicle shall Ergonomic design principles, so as to reduce labor intensity, to avoid operator fatigue. The operator should work mining Take the necessary protective measures.

4.1.5 control device design, selection and configuration should be part of the operating characteristics of the human body (especially functional) and a control task to adapt.

4.1.6 due to the power source can not interrupt any danger in the car the whole mixed job.

4.1.7 vehicles specially mixed effective anti-static grounding device must be installed, the

rubber strip holder shall comply with the requirements JT230.

4.1.8 Charge mixed vehicle operating position and the position should be filled boreholes installed lighting, illumination of not less than 30lx.

4.1.9 mixed cars work platforms and channels shall comply with GB 17888.2, the ladder should be consistent with the provisions of GB 17888.3.

4.1.10 bins and conveying portion in contact with the corrosive medium should be used preservative manufacturing materials.

4.1.11 conveying spiral blade should not be the case with friction.

4.1.12 exposed rotating parts should be configured guards, to avoid the risk of wound involved.

4.1.13 sharp edges, corners and protruding parts of the design should be consistent with GB/T 15706.2 requirements, if cold, dangerous contact with hot surfaces, which These surfaces should be equipped with guardrails or covers.

4.1.14 drug delivery hose must be used with a metal braid antistatic hose.

4.2 Vehicle

4.2.1 mixed used car chassis safety performance should be consistent with the relevant provisions of the standard vehicle.

4.2.2 Mixed loading vehicle during normal driving, stop the job and should be sufficient stability, there should not be tilting and sliding in any direction can be Possibilities.

4.2.3 Vehicle dimensions shall comply with the requirements of GB 1589, and the total load shall not exceed the limit.

4.2.4 The vehicle shall be equipped with vehicle traveling data recorder and satellite positioning device.

4.3 Requirements roads

4.3.1 mixed car only adapt to the use of latex-free detonator sensitivity matrix, the matrix storage and transportation without latex sensitivity detonator according to GB 50089-2007 Provisions stipulated

1.4 dangerous goods executed. Ammonium nitrate storage and transport according to the CPI fire regulations, storage of water and oil phases and the solution Transport performed in a Class C fire regulations.

4.3.2 mixed car driving on the highway, the lowest speed is the lowest speed limit of the highway, the maximum speed limit for the highway minimum speed limit plus 10km/h, the general speed limit of the road 50km/h, you move through the borehole speed is less than