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

GB/T 13228-2015

Replacing GB/T 13228-1991

Test method of detonation velocity for industrial explosive

工业炸药爆速测定方法

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 13228-1991 "industrial explosive detonation velocity determination." This standard compared with GB/T 13228-1991 main changes are as follows:

- Increasing the normative references (see Chapter 2);
- Delete a block diagram showing the test system (see GB/T 13228-1991 Figure 1);
- Modify the test equipment and material requirements (see Chapter 4, GB/T 13228-1991
- Modify the test sample drug volume density requirements (see
5.2 and 5.3, GB/T 13228-1991 Chapter 2);
- Modify the target line to determine the installation location and installation requirements (see Chapter 6, GB/T 13228-1991 of
3.4.3.1 and 3.4.3.2);
- Increasing the detonation velocity test methods for porous granular ANFO and viscous granular ANFO (see
- Increased sensitivity without detonator explosives detonation velocity test latex-containing matrix (see
- Increasing the detonation velocity test methods, cast and press-fit Industrial Explosives (see
- Delete the data processing standard deviation S , an increase of poor detonation velocity value RD (see 8.1.3, GB/T 13228-1991 3.5.3);
- Modify the method of determining the validity of data and measurement results presentation method, an increase of additional test methods (see
8.2 and 8.3, GB/T 13228-1991 3.5.5);

1 Scope

GB/T 13228-2015 is the Chinese national standard on test method of detonation velocity for industrial explosive, in the field of chemical technology. 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 15 May 2015 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 February 2016. Classification: ICS 71.100.30, CCS G89. 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 principle industrial explosive detonation velocity measurement, instruments and materials, test sample preparation, target line and making installation data at Li and other content. This standard applies to industrial explosives detonation velocity was measured. Other explosives detonation velocity can be measured with reference to this standard.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 6109.1 enamelled round winding wire - Part 1. General requirements

GB 8031 \u200b\u200bindustrial electric detonator

GB/T 10002.1 water with a hard polyvinyl chloride (PVC-U) pipes

GB/T 17395 seamless steel pipe size, shape, weight and tolerance WJ9046 industrial explosive detonation velocity test instrument calibration specification WJ/T 9056.1

Determination of the density of industrial explosives - Part 1. Determination of drug volume density

3 Test principle

After holding explosives original drug status, or according to specification modification method of bulk explosives, the two parallel enamelled round copper wire wound as a sensing element (Wire type

--- pass off target line, referred to as the target line), the installation method in accordance with the provisions Explosives (explosive charge or surface), can take advantage of

detonation reaction zone That the target line at both ends of the resistance moment smaller features, measuring stable detonation wave length (L) of explosives used in propagation time (t), calculated measure The average amount of detonation velocity explosives paragraph (D).

4 Instruments and materials

Equipment and materials are as follows:

- a) detonation velocity meter. calibration qualified according to the requirements of WJ9046.
- b) Balance. Range 500g, the accuracy of 0.5g.
- c) vernier caliper. dividing the value of not more than 0.02mm.
- d) steel ruler. minimum scale 1mm.
- e) Paper. Sack with dynamite rolls or rolled into a paper tube diameter of 32mm, made after the end of the seal, Paper length is not less than 20cm.
- f) PVC plastic pipe. GB/T 10002.1. Specifications. nominal diameter 110mm, wall thickness of 4.2mm ~ 5.3mm. Plastic pipe length 1000mm, from one end of the plastic tube wall at 100mm and 500mm, each hit a diameter of 2mm perforation, as security Threading hole loaded with the target line. Perforated hole through the center of each pair wiring should be vertical and the plastic tube axis.
- g) seamless steel pipe. GB/T 17395. Specifications. diameter 48mm, wall thickness 4mm. Pipe length 400mm, in steel tube from a At the end of 50mm and 150mm, each playing a 2mm diameter perforations as a threaded hole mounting with the target line. With plastic insulation