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

GB/T 8031-1987

Replacing GB 8031-2005; GB/T 16625-1996

**Industrial electric blasting cap
(English Translation)**

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and Definitions
4 Classification and Nomenclature
4.1 Classification of industrial electric detonators
4.2 Industrial electric detonator named
5 Requirements
5.1 Appearance
5.2 Coding
5.4 Foot line
5.5 Material
5.6 Performance
6 Test methods
6.1 Appearance
6.2 Coding
6.3 Do not sign
6.4 Foot line
6.5 Full resistance
6.6 Maximum current misfire
6.8 Combustion can punch
6.9 Initiating current series
6.10 Electrostatic Sensitivity
6.11 Seismic Performance
6.12 Initiating Capacity
6.13 Tensile Properties
6.14 Water resistance
6.15 Heat resistance
6.16 Flammable gas safety
6.17 Delay Time
6.18 Inverted initiation capability
7 Inspection rules

7.1 Inspection classification

7.2 Test Project

17 Temperature resistance - - 5.6.7 6.15 - - - -

18 Flammable gas safety - - 5.6.8 6.16 - - - -

19 Delay Time sqrt - 5.6.9 6.17 sqrt - 5.6.9 6.17

Foreword

This standard 5.1.1,5.2,5.4,5.5,5.6.3,5.6.4,5.6.6,5.6.7,5.6.8,5.6.9 in 2 ms series, 8.1.2.1,8.1.3, 8.2, some indicators in Table 2 (maximum current is not angry, electrostatic sensitivity) are mandatory, the rest are recommended.

This standard GB/T 1.1-2009 given rule drafting.

This standard replaces GB 8031-2005 "Industrial electric detonators" and GB/T 16625-1996 "seismic exploration electric detonators." this standard and GB 8031-2005 and GB/T 16625-1996 compared to the main changes are as follows.

--- Modify the classification of industrial electric detonator (see 4.1, GB 8031-2005 of Chapter 4);

--- Modification on foot line requirements, increasing the "insulation thickness of the thinnest point" and "anti-high voltage breakdown performance" requirements (see 5.1.2,5.4.2 and 5.4.3, GB 8031-2005 5.2);

--- Revised industrial electric detonator material requirements (see 5.5, GB 8031-2005 5.3);

--- Modify the whole industrial electric detonators resistance requirements (see 5.6.1, GB 8031-2005 5.4.1 and GB/T 16625-1996

Table 1);

--- To the maximum safe current will not firing current, revised seismic exploration electric detonators misfire maximum current (see 5.6.2,

5.4.3 GB 8031-2005 and GB/T 16625-1996 Table 1);

--- Ability to detonate the perforation diameter makes specific requirements (see 5.6.4, GB 8031-2005 5.4.8 and the GB/T 16625-1996

Table 1);

--- Modify the water resistance index of industrial electric detonator (see 5.6.6.1 and 5.6.6.2, GB 8031-2005 and the 5.4.10 GB/T 16625-1996 Table 1);

--- Added "Invert the initial capacity" performance requirements (see 5.6.10);

- Increased seismic exploration extension power detonators, delay time are 0ms, 1ms, 2ms, 3ms, 4ms, 5ms, 6ms, 7ms (see Table 3 of the first 4 milliseconds series);
- Added "foot line" test, modify the content test methods (see Chapter 6, GB 8031-2005 of Chapter 6 and Chapter GB/T 16625-1996 5th);
- Modify the test list, which increased the "code", "Do not segment flag", "foot wire insulation thickness of the thinnest point," "anti-foot line of high voltage breakdown can "" Invert initiation capability "test (see Table 4 and Table 5, GB Table 3 and GB/T 16625-1996 4.1 in 8031-2005);
- Revised inspection procedures (see Figure 1, GB 8031-2005 Figure 1 and GB/T 16625-1996 of Chapter 4);
- Modify the decision rule (see 7.7, GB 8031-2005 7.7);
- Modify the delay time determined in isolation or batch type test project (see Appendix A of A.2) is;
- Increased B "inverted initiation capability testing apparatus schematic diagram" (see Appendix B) Appendix;
- Amend Appendix C "sampling plan examples" (see Appendix C, GB 8031-2005 Appendix B).

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This standard is under the jurisdiction of Explosive Materials Standardization Technical Committee of Ministry of Industry and Information Technology of the People's Republic of China.

This standard was drafted. a new era of civil explosive (Liaoning) Co., Ltd., Liaoning Huafeng Min with Chemical Development Co., Ltd., Beijing Allianz States Branch Technology Consulting Co., Ltd., Beijing Beijing Coal Chemical Industry Co., Ltd., Xinjiang Xuefeng civilian blasting equipment limited liability company, Accor Group Mian Yang Industrial Co., Ltd., Xi'an Qinghua civilian blasting equipment Co., Ltd., Shandong Sheng Shi Chemical Co., Ltd., Hebei Yunshan Chemical Group Ltd. Fengfeng civil explosive Branch, Division of thunder Anhui Co., Ltd., China Ordnance Industry Standardization Institute, China blasting equipment firms Industry Association, the National Coal Mine Explosion Safety Products Supervision and Inspection Center.

1 Scope

This standard specifies the electrical detonator industrial classification and nomenclature, requirements, test methods, inspection rules and signs, packaging, transportation, storage and so on.

This standard applies to industrial electric detonators.

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 190 packaging and marking of dangerous goods GB/T 191 Packaging - Pictorial signs
GB/T 2828.1 Sampling procedures - Part 1. batch inspection sampling plan according to
accepted quality limit (AQL) retrieval GB/T 2829 periodic inspection Sampling procedures
and tables (suitable for process stability test) Analyzing and processing GB /statistical
processing and interpretation of normal sample values T 4883-1985 data GB/T 6378
percent nonconforming sampling inspection procedures and charts (Apply to inspection of
successive lots) GB/T 8170 repair value expressed about the rules and limit values and
judgment GB 9969 Industrial Products General Instructions GB/T 13225 Industrial
detonator delay time measuring method GB/T 13226 Test method for industrial detonator
grid GB/T 13227 Industrial detonator immersion test method GB/T 14436 General industrial
products assurance documents GB/T 14659 civilian blasting equipment terminology,
symbols GB/T 18014-2008 electric detonators PVC insulated wire Electric detonators
flammable gas safety test method GB 18096 Coal Mine Permissible GA441 industrial
detonator General GA921 Civil Explosives warning labels, registration identification General
WJ231 vibration test machine WJ/T 9010 industrial detonator corrugated packaging WJ/T
9031 Industrial detonator classification and naming rules WJ/T 9039 Industrial electric
detonator angry rushed to test method WJ/T 9042 Industrial electric detonator Electrostatic
Sensitivity Test Method WJ/T 9043.1 industrial electric detonators temperature and
pressure - Test methods - Part 1. Test temperature WJ/T 9044 Industrial electric detonator
minimum firing current measuring method

3 Terms and Definitions

Terms and definitions GB/T 14659 apply to this document defined.

4.1 Classification of industrial electric detonators

Industrial electric detonator use is divided into.

a) Ordinary electric detonator;