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CCS G89



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

GB/T 13889-2015

Replacing GB/T 13889-1992

Electric detonator for oil and gas well

油气井用电雷管

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 13889-1992 "oil and gas wells electric detonators general technical conditions." Compared with GB/T 13889-1992 The main technical changes are as follows:

- Modify the standard name, the "oil and gas wells electric detonators general technical conditions" to "oil and gas wells electric detonator";
- Added "Terms and definitions" (see Chapter 3);
- Modify the classification of oil and gas wells in the form of electric detonators, an increase of oil and gas wells with a magnetic detonator relevant content (see 4.1, GB/T 13889-1992 3.1);
- Modify the temperature and pressure electric detonator temperature and pressure matching parameters (see Table 1);
- Modify the oil and gas wells electric detonators naming and naming examples (see 4.2, GB/T 13889-1992 3.2);
- Increased product encoded content (see 5.2);
- The "safe current (voltage)" to "the maximum current is not angry," improved product misfire current maximum value (see 5.5, GB/T 13889-1992 4.8);
- Modified angry relevant content (see 5.6, GB/T 13889-1992 4.10);
- The "static" to "electrostatic sensitivity" and add the relevant content (see 5.7, GB/T 13889-1992 4.9)
- Added "anti-frequency power" relevant content (see 5.8);
- "Output" to "initial capacity", and modify the content (see 5.9, GB/T 13889-1992 4.11);
- Abolition of the "Materials and Components Test" (see GB/T 13889-1992 5.1);

--- Increasing the content resistance test (see 6.4, GB/T 13889-1992 5.3);

1 Scope

GB/T 13889-2015 is the Chinese national standard on electric detonator for oil and gas well, 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 November 2015. 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 electrical detonator wells Classification and nomenclature, requirements, test methods, inspection rules, packaging, labeling, transportation, storage and so on. This standard applies to oil and gas wells 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 for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan

GB/T 13226 Test method for industrial detonator grid

GB/T 14659 civilian blasting equipment term 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 9032 civilian blasting equipment terminology, symbols WJ9042-2004 industrial electric detonators Electrostatic Sensitivity Test Method WJ/T 9043.1 industrial electric detonators temperature and pressure - Test methods - Part 1. Test temperature WJ/T 9043.2 industrial electric detonators temperature and pressure - Test methods - Part 2. Test temperature and pressure

3 Terms and Definitions

GB/T 14659 and WJ/T 9032 defined by the following terms and definitions apply to this document.

3.1 Anti-frequency electric resistpowerfrequency Unexpected electrical power supply system is connected to AC three-phase power (380V/50Hz) when misfire performance detonator input.

4.1 Classification

4.1.1 oil and gas wells by the use of electric detonators into environmental conditions.

a) oil and gas wells with electric detonators temperature. The temperature rating of 120 °C, 140 °C, 160 °C, 180 °C, 200 °C, 220 °C, 250 °C, 280 °C, 300 °C;