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**SN**

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

**SN/T 1731.10-2012**

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**Safety performance test for pyrotechnic composition used for  
export fireworks and firecracker. Part 10: Test method for  
electrostatic sensitivity**

出口烟花爆竹用烟火药剂安全性能检验方法 第10部分：静电火花感度测试方法  
(English Translation)

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### Foreword

SN/T 1731 "export fireworks with pyrotechnic safety performance test methods" is divided into 10 parts.

--- Part 1. General;

Part --- Article 2. 75 °C determination of thermal stability;

--- Part 3. Determination of flashpoint;

--- Part 4. Disable restricted drugs qualitative analysis;

--- Part 5. Determination of impact sensitivity;

--- Part 6. Determination of friction sensitivity;

--- Part 7. Determination of moisture;

--- Part 8. Determination of ignition temperature;

--- Part 9. Fire sensitivity test methods;

--- Part 10. electrostatic spark sensitivity test method.

This section SN/T 1731 "export fireworks with pyrotechnic safety performance test methods" Part 10.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

## 1 Scope

SN/T 1731 This section specifies the test methods fireworks export agent with electrostatic spark sensitivity of fireworks.

This section applies to exports of fireworks with pyrotechnic electrostatic spark sensitivity of the test.

## 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.

SN/T 0306.4 inspection of export fireworks Part 4. Safety Inspection

## 3 Terms, definitions and symbols

SN/T 0306.4 determine the terms, definitions and symbols apply to this document.

Test Method 4

### 4.1 Principle of the method

Static spark to detonate or ignite fireworks pyrotechnic effects can be regarded as a charge equivalent to a certain voltage on the capacitor Shaped sample placed in the discharge between the electrodes. 50% of the test E50 is static spark ignition energy sensitivity of the sample.

### 4.2 Main equipment and materials

- a) JGY-50 Electrostatic sensitivity meter.
- b) the dryer.
- c) oven.
- d) balance. a sense of the amount of 0.001g.
- e) dial indicator. Range 0mm ~ 10mm.
- f) Capacitance. 0.03 $\mu$ F, 0.01 $\mu$ F, 500pF, the breakdown voltage of > 30kV.
- g) Resistance. RS11 carbonaceous resistance, 120kohm.
- h) insulating sleeve. meet JGY-50 Electrostatic sensitivity instrument drawings.
- i) hit Column. GJB772A-1997 in line with the requirements of 4.2.
- j) pole pin. meet JGY-50 Electrostatic sensitivity instrument drawings.

k) styphnate. crystallization.

l) industrial alcohol.

### **4.3 Instrument Calibration**

#### **4.3.1**

JGY-50 Electrostatic sensitivity meter installation calibration by the use of the instrument instructions.