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

SN/T 1730.2-2006

**Safety performance test for export fireworks and firecrackers.
Part 2: Thermal stability at 75 Celsius**

出口烟花爆竹安全性能检验方法 第2部分：75℃热稳定性试验
(English Translation)

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Foreword

SN/T 1730 "Safety Performance Test Method for Export Fireworks and Firecrackers" is divided into.

- Part 1. General;
- Part 2. 75 ° C thermal stability test;
- Part 3. Low temperature stability test;
- Part 4. Anti-vibration test;
- Part 5. Drop test;
- Part 6. Explosion test;
- Part 7. Packaging identification;
- Part 8. Product drug testing;
- Part 9. Aphorism label inspection;
- Part 10. Use safety performance test.

This part is the second part of SN/T 1730.

This section refers to the United Nations "Dangerous Goods Transport Recommendations - Test and Standards Manual" (Recommendations on the TRANSPORT OF DANGEROUS GOODS---Manual of Tests and Criteria)(ST/SG/AC.10/11/Rev. 4) ("Little Orange Book").

This part is proposed and managed by the National Certification and Accreditation Administration.

This section drafted by. Jiangxi Entry-Exit Inspection and Quarantine Bureau of the People's Republic of China.

1 Scope

This part of SN/T 1730 specifies the test methods and results of the 75 °C thermal stability test for export fireworks.

This section applies to the inspection of the thermal stability of export fireworks and firecrackers at 75 °C.

2 Normative references

The terms in the following documents become the provisions of this section by reference to this part of SN/T 1730. Quotations with dated , all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouragement is achieved under this section the parties to the agreement study whether the latest versions of these documents can be used. For undated references, the latest edition applies to this section.

GB 50089 civil blasting equipment factory design safety specification SN/T 1725 export fireworks and firecracker terminology

3 Terms and definitions

The terms and definitions established by SN/T 1725 apply to this part of SN/T 1730.

4.1 Facilities and materials

4.1.1

Anti-explosion room should meet the requirements of GB 50089.

4.1.2

Electric oven. Equipped with ventilation and with explosion-proof electrical devices and a thermostat capable of maintaining and recording $75\text{ °C} \pm 2\text{ °C}$, the oven should be There are dual temperature thermostats or protection against thermal runaway when the thermostat fails. Should also be equipped with a temperature recorder the thermocouple is used to evaluate whether an exothermic temperature rise occurs.

4.2 Procedure

4.2.1

The sample is a transport package, that is, a box of packaged products. Some products may be too long, such as rocket products, can cut off a piece of wood the rods are loaded

into similar smaller packages and tested.

4.2.2

When dealing with articles of unknown performance, a small amount of pyrotechnics should be taken from the product for a 75 °C thermal stability test to determine its performance. If no explosive reaction occurs when testing with a small amount of material, test according to 4.2.3. If an explosion or fire occurs the thermal stability does not meet the transportation requirements.

4.2.3

Place the thermocouple on the surface of an article near the center of the package and thermocouple it to a temperature logger. The entire package the piece (along with the thermocouple) is placed in a constant temperature oven placed in the anti-explosion room, the temperature is adjusted at 75 ° C, the constant temperature oven power is turned on, and the anti-explosion room is closed.

Room door, then open the total power from the anti-explosion room, heat the oven to 75 ° C, the sample is kept in the constant temperature oven at this temperature for 48h or it is until there is a sign of fire, explosion, smoke, decomposition or some kind of self-heating.

5 Evaluation of results

In the test, if there is an explosion, fire, smoke, decomposition, temperature rise of more than 3 ° C, the shell of the product is damaged, the result is "+". in case no changes were observed and the result was "-".