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

SN/T 1730.4-2006

**Safety performance test for export fireworks and firecrackers.
Part 4: Anti-vibration**

出口烟花爆竹安全性能检验方法 第4部分：抗振动试验
(English Translation)

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 Test methods
4.1 Equipment and materials
4.2 Procedure
5 Evaluation of results

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 fourth part of SN/T 1730.

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 evaluation of the anti-vibration performance of fireworks and firecrackers.

This section applies to the anti-vibration performance test of export fireworks and firecrackers.

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 SN/T 1730.10 Safety of fireworks and firecracks - Test methods - Part 10. Use safety performance test

3 Terms and definitions

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

4.1 Equipment and materials

4.1.1

Vibration tester. installed in the anti-explosion room, its technical indicators are.

---Vibration frequency. 5Hz ~ 60Hz;

---Amplitude. 10mm.

4.1.2

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

4.2 Procedure

4.2.1

When handling new substances, an identification test shall be carried out to determine its performance. A small amount of sample shall be placed on the vibration test machine and the binding tape shall be fastened.

Adjust the vibration frequency, start the vibration test machine, vibrate for 30min, observe

whether the sample has burned or exploded or scattered, if a small amount of sample is used no explosion reaction occurs during the test, then the procedure described in 4.2.2 should be used. If the substance that explodes or catches fire is anti-vibration Mobility is too unstable to transport.

4.2.2

Place the box sample on the vibration test machine, fasten the strap, close the anti-explosion room door, and then open the main power supply from the anti-explosion room.

Dynamic vibration tester, the vibration frequency is uniformly increased by 50Hz from 5Hz within 3h, and then the vibration frequency is evenly 50Hz in 3h.

Dropped to 5Hz, the amplitude is 10mm. Observe whether the sample burns, explodes, smokes, decomposes or deforms, and scatters.

4.2.3

If there is no burning, explosion, smoke, decomposition or deformation, or scattering, take out the sample and inspect it according to SN/T 1730.10.

5 Evaluation of results

In the test, if no fire, explosion, smoke, decomposition or deformation, signs of scattering, and safety performance test are observed, the knot is the result is "-", otherwise the result is "+".