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

SN/T 2498.1-2010

**Basic environmental testing procedures for import and export
fireworks. Test Db: Damp heat, cyclic**

进出口烟花爆竹制品基本环境试验规范 试验Db：交变湿热试验方法
(English Translation)

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Foreword

SN/T 2498 "Importers Pyrotechnic products environmental testing norms" standard series is divided into two parts.

--- Test Db. Damp heat test, cyclic;

--- Test Ed. Free fall.

This section SN/T 2498 Part 1.

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

This section is responsible for drafting unit. People's Republic of China Tianjin Entry-Exit-Entry Inspection and Hunan People's Republic of China Quarantine Bureau.

1 Scope

This section SN/T 2498 specifies the test procedures fireworks alternating hot and humid test, and the severity of the basic chamber (chamber) Requirements.

Under this section applies to determine the import and export of fireworks in the temperature cycling, the product surface condensation of humid conditions of use and storage Adaptability.

2 Chamber (chamber) requirements

It should be fitted to monitor temperature and humidity conditions inside the sensor 2.1 workspace.

Temperature 2.2 Operating space should be able to cycle vary between $25\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$ with

the selected temperature; rate of temperature change and temperature tolerance can Meet the test requirements.

RH 2.3 workspace can meet the test requirements.

2.4

Temperature and humidity work space should be uniform, and may be consistent with the conditions of temperature and humidity at the sensor.

2.5

Test Equipment radiant heat of the heating element should not be directly on the test specimen.

2.6

produces humidity plus wet direct contact with water in the test resistivity of the water should remain lower than $500\Omega \cdot m$.

2.7

Condensate discharge should continue to work outdoors without purification treatment may not be used again.

2.8

Condensate chamber (chamber) inner wall and the top should not drip on the test sample.

And electrical properties of test samples 2.9 load should not significantly affect the temperature and humidity conditions in the workspace.

3 Severities

3.1

Test severity determined by a combination of high temperature and other temperature and the number of test cycles.

3.2

Select the severity from the following combinations.

a) high temperature Temperature. 40°C Test cycle. 2d, 6d, 12d, 21d, 56d.

b) temperature. 55°C Test cycle. 1d, 2d, 6d

4.1 Initial Detection

Accordance with the regulations about labels, visual inspection of the test sample.

4.2 Test Conditions

4.2.1

The test sample was placed in accordance with its normal placement within the chamber (chamber) of the workspace. If the test sample is placed in a special way, Required with mounting bracket, the thermal conductivity of the sample holder should be as low as possible, so that the test sample is actually insulated.

4.2.2

at a temperature of $25\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$, relative humidity of 45% to 75% under the conditions of the test sample to reach the temperature steady. After that, the relative humidity within 1h working space is increased to not less than 95%.

4.2.3

so that the temperature inside the working space within 24h cycling.

a) heating stage. Within $3\text{h} \pm 0.5\text{h}$, continuously raised the standards prescribed temperature value of the temperature of the workspace, the heating rate should be