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

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**Determination of self heating for dangerous goods of
flammable solids**

危险品易燃固体自热试验试验方法

(English Translation)

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Foreword

This revised standard adopts the United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations ." (fourteenth revised edition) and "test and standard Associate Handbook "(fourth revised edition).

This standard was proposed by the State Administration of Quality Supervision Inspection and Quarantine of People's Republic of China.

This standard by the National Certification and Accreditation Administration Committee.

1 Scope

This standard specifies the instruments, test procedures and test results dangerous flammable solids from the heat test.

This standard applies to dangerous flammable solid, self-heating test measures.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references. All subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 19458-2004 Safety inspection of hazardous properties of dangerous goods - General specifications United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations ." (fourteenth revised edition) United Nations "on the Recommendations on the Transport of Dangerous Goods, Tests and Criteria Handbook" (fourth revised edition)

3 Terms and Definitions

United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations ." (fourteenth revised edition), "on the Recommendations on the Transport of Dangerous Goods * Manual of Tests and Criteria "(fourth revised edition), GB 19458 and established the following terms and definitions apply to this standard.

Readily combustible solids which may cause fire or friction solid.

4 Instrument

4.1

Hot air circulation oven, the internal volume greater than 9L, temperature control accuracy of $100\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, $120\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, $140\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$.

4.2

cubic side length of 25mm and 100mm of the sample container, made of stainless steel mesh side length of 0.05mm, the open top of the container.

Chrome aluminum 4.3 two 0.3mm diameter thermocouple.

4.4

thermometer.

5 Test procedure

5.1

powdery or granular material put into the sample test sample container, filled to the rim, and the container tapped several times. As the sample sink, following Continued addition of the sample, the sample piled high after trimming flattened, covering the container with a cover, hanging in the center of the oven.

5.2

The oven temperature was raised to $140\text{ }^{\circ}\text{C}$, and kept 24h. Continuous recording of oven temperature and the sample temperature.

5.3

Take a side length of 100mm cube sample at $140\text{ }^{\circ}\text{C}$ conditions, the first experiment to see whether the test sample within 24h Injection temperature higher than $60\text{ }^{\circ}\text{C}$ phenomenon oven temperature. If it is not this phenomenon, the test was stopped. If the above phenomenon, then take the side length 25mm cube sample at $140\text{ }^{\circ}\text{C}$ conditions a second experiment, the above phenomenon was observed whether the sample.

5.4 5.3 Test if the phenomenon does not appear, according to the substance during

transport in different packaging conditions are selected test temperature, take the side length 100mm cube specimens continue to experiment to see whether the above phenomenon.

--- If the substance to be greater than the volume of 0.45m³, less than 3m³ container transport, test temperature was 120 °C;

--- If the substance in the container volume will be less than 0.45m³ of transport, test temperature to 100 °C.

6 Test Results

Flammable solid dangerous self-heating test method for determination are shown in Table 1.