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

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**Dangerous goods -- Test method of self-heating for flammable
solids**

危险品 易燃固体自热试验方法

(English Translation)

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Foreword

This corresponds to the standard of the United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations" and the United Nations "was built on the Transport of Dangerous Goods Recommendations Manual of Tests and Criteria ", with its non-equivalent. Its technical content and said full agreement in the standard text the present format press GB/T 1.1-2000 made editorial changes.

This standard is managed by the National Standardization Technical Committee chemicals dangerous (SAC/TC251) and focal points.

1 Scope

This standard specifies the equipment, test procedures and test reports dangerous flammable solids self-heating 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, 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.

United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations" United Nations "on the Recommendations of the Transport of Dangerous Goods Manual of Tests and Criteria"

3 Terms and Definitions

United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations", the United Nations' Recommendations on testing and standard transport of dangerous goods Associate Handbook "and established the following terms and definitions apply to this standard.

Flammable solids are readily combustible solids which may cause fire or friction solid.

4 Test Equipment

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.

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

two thermocouples were used to measure oven temperature testing center.

5.3

Take a side length of 100mm cube sample at $140\text{ }^{\circ}\text{C}$ conditions tested and maintained 24h, continuous record of the sample temperature and the oven temperature.

5.4

Take a side length of 25mm cube sample at $140\text{ }^{\circ}\text{C}$ conditions tested and maintained 24h, continuous record of the sample temperature and the oven temperature.

5.5

substance to a volume greater than 0.45m^3 , less than 3m^3 of container transport, take the edge length of 100mm cube $120\text{ }^{\circ}\text{C}$ conditions Under test and maintain 24h, continuous record of the sample temperature and the oven temperature.

5.6

substance to be less than 0.45m³ in volume, taking the side length of the test conditions at 100mm cube 100 °C and holding 24h, even Continued recording the sample temperature and the oven temperature.

6 Test Result Description

6.1

If self-heating within 24h test time or the sample temperature is higher than the oven temperature 60 °C, the test substance is considered as self-heating substances, Recorded as a positive result. Otherwise, record the result is negative.

6.2

Test substances if they meet the following conditions, for the non-material 4.2.

a) a negative result is obtained when the test 100mm³ cube sample at 140 °C;