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

SN/T 2244-2009

Dangerous goods. Test method for self-heating substances

危险品自热物质自热试验方法

(English Translation)

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Foreword

This standard and the United Nations "on the Recommendations of the Transport of Dangerous Goods Manual of Tests and Criteria" (4th revised edition) Section 33.3.1.6 Test Section Mortem N. 4 "Standard Test Method for self-heating substances," the non-equivalent, which is consistent with the above-mentioned technical contents of Tests and Criteria Manual.

Appendix A of this standard is an informative annex.

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

This standard was drafted. Ningbo Entry-Exit Inspection and Quarantine Bureau Technology Center.

1 Scope

This standard specifies the standard method for determining the import and export of dangerous goods 4.2 self-heating substance.

This standard applies to the import and export of dangerous goods classification division and packing group 4.2.

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 of the Transport of Dangerous Goods Manual of Tests and Criteria" (4th revised edition)

3 Terms and Definitions

United Nations "on the Recommendations of the Transport of Dangerous Goods Manual of Tests and Criteria" (4th revised edition) as well as established the following terms and definitions Apply to this standard.

Does not meet the pyrophoric substances (pyrophoric substances) standard and Inflammable material in the absence of the energy supply situation in contact with air easily Own heating substances. Only the large number of such substances (a few kilograms) and after long periods accumulate will burn.

Principle 4

The test substance mounted side by 25mm or 100mm cube steel mesh container at a temperature of 100 °C, 120 °C or at 140 °C exposed to air, observe whether spontaneous combustion or a significant temperature rise to determine if the substance is oxidized from heat.

5.1 Equipment and Materials

It requires the following devices.

- a) a hot-air circulating oven and an internal volume greater than 9L, and is capable of controlling the internal temperature at 100 °C, 120 °C or 140 °C, temperature control accuracy of ± 2 °C;
- b) side length 25mm and 100mm cube specimen container, the manufacture of stainless steel mesh, mesh 0.05mm, open top container;
- c) the diameter of 0.3mm aluminum chromium thermocouple; one on the center of the sample, and the other placed between the sample container and the oven wall.

Each sample container should be placed in a cubic container cover, the cover is formed by a 0.60mm mesh stainless steel mesh, slightly larger than the sample container. In order to avoid the effect of air circulation, this cover into another stainless steel cage, the cage is 0.595mm mesh stainless steel mesh Into a size of 150mm x 150mm x 250mm.

5.2 Program

The commercial form of powder or granular specimen put into the sample container, filled to the rim, and the container tapped several times. As the sample sink, Adds Add some. Such as sample stack is too high, it trimming flattened. The container cover covering, and hung in the center of the oven. The oven temperature was raised to 140 °C, and kept 24h.

Continuous recording sample and temperature of the oven. 100mm cube specimen with the first test. in case Spontaneous combustion or, if the sample temperature higher than the oven temperature 60 °C, namely to achieve a positive result. If you get a negative result, you do not need Further tests. If you get a positive result, use 25mm cube sample second test at 140 °C, to determine