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

GB/T 4857.17-2017

**Packaging -- Basic tests for transport packages -- Part 17:
General rules for the compilation of performance test**

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Foreword

GB/T 4857 is divided into the following sections.

- Part 1. Marking methods for each part of the test;
- Part 2. temperature and humidity regulation;
- Part 3. Static load stacking test method;
- Part 4. Compressive and stacking test methods using pressure testing machines;
- Part 5. Drop test method;
- Part 6. Rolling test methods;
- Part 7. Sinusoidal vibration test method;
- Part 9. Spray test methods;
- Part 10. sinusoidal vibration test method;
- Part 11. Horizontal impact test methods;
- Part 12. Test method for flooding;
- Part 13. Low pressure test methods;
- Part 14. Tilt test method;
- Part 15. Controlled level impact test method;
- Part 17. General rules for the preparation of performance test syllabuses;
- Part 19. Records of circulation test information;
- Part 20. Collision test methods;
- Part 22. Unit cargo stability test method;
- Part 23. Random vibration test method.

This part is part 17 of GB/T 4857.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 4857.17-1992 "General Principles of Performance Outline for Packaging Transport Packages" and

GB/T 4857.18-1992 "Quantitative data for the Outline of the Performance of Packaging Transport Packages". This part is right

GB/T 4857.17-1992 and GB/T 4857.18-1992 in the revision process, the two standards will be integrated together.

This section is related to GB/T 4857.17-1992 and GB/T 4857.18-1992, except for editorial changes.

as follows.

- Increased determinants of conformity criteria for transport packages (see 7.1);
- the factors that should be taken into account in determining the degree of damage (see 7.2);
- modified the test sequence (see 9.1.2);
- modified part of the test strength values (see 9.1.3.3, 9.1.3.4, 9.1.3.5, 9.1.3.6);
- Increased horizontal impact test increases the peak acceleration preference parameter (see 9.1.3.3);
- Added the contents of the test report (see 10.2).

This part uses the re-drafting method to amend ISO 1480..2009 "complete package, full package of transport package performance test outline prepared by".

The technical differences between this section and ISO 4180..2009 are as follows.

--- on the normative reference documents, this part has made a technical differences in the adjustment to meet China's technical conditions, adjust the situation

The situation is reflected in Chapter 2, "Normative references", as follows.

Replace ISO 2233 (see 9.1.3.1) with GB/T 4857.2 with international standard modification;

Replace ISO 2234 (see 9.1.3.6) with GB/T 4857.3 equivalent to the international standard;

Replace ISO 12048 (see 9.1.3.6) with GB/T 4857.4 equivalent to the international standard;

Replace ISO 2248 (see 9.1.3.4) with equivalent GB/T 4857.5 of the international standard;

Replace ISO 2876 (see 9.1.3.7) with equivalent GB/T 4857.6 of the international standard;

Replace GB 2247 (see 9.1.3.7) with GB/T 4857.7 with international standard modification;

Replace GB 2875 (see 9.1.3.7) with GB/T 4857.9 equivalent to the international standard;

Replace GB 8318 (see 9.2.3.1) with GB/T 4857.10 with international standard modifications;

Replace GB 2244 (see 9.1.3.3) with GB/T 4857.11 with international standard modifications;

Replace GB 2873 (see 9.1.3.2) with GB/T 4857.13 with international standard modification;

Replace ISO 8768 (see 9.1.3.7) with equivalent GB/T 4857.14 for international standards;

Replace ISO 10531 (see 9.1.3.7) with equivalent GB/T 4857.22 of the international standard.

--- Because of this part of the reference GB/T 4122.1 "Packaging terms Part 1. Basic", the relevant terms have been explained, so delete

The terms "transport package" and "circulation conditions".

- For the test method, the preparation of the test sample is one of the key factors affecting the test results, while ISO 4180..2009 did not

There is a requirement for the test sample, so this part adds the "test sample" requirement (see 6.3).

The height of the drop test determines the acceleration at the time of the impact and does not require peak acceleration. So this part corrected the drop high

The use of "peak acceleration" error.

--- ISO 4180..2009 The description of "maximum load" is not clear and complete, so this part changes the description of "maximum load" (see

Table 8, Table 10 and Table 11).

This part of the National Packaging Standardization Technical Committee (SAC/TC49) proposed and centralized.

The main drafting unit of this part. Shangfeng Group Co., Ltd., Fujian Minetuo Technology Co., Ltd., Shenzhen Vocational and Technical College, Machinery

Scientific Research Institute, China Packaging Research and Testing Center.

1 Scope

This part of GB/T 4857 specifies the general rules and relevant quantitative data for the preparation of transport package performance test syllabuses.

This part applies to the determination of the preparation of a transport package performance test outline.

This part does not apply to dangerous goods transport packages.

2 normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article

Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 4122.1 Packaging terminology - Part 1. Foundations

GB/T 4857.2 Packaging transport packages - Basic test - Part 2. Temperature and humidity regulation (GB/T 4857.2-2005,

ISO 2233..2000, MOD)

GB/T 4857.3 Packaging - Transport packages - Basic test - Part 3. Static load stacking test method (GB/T 4857.3 -

2008, ISO 2234..2000, IDT)

GB/T 4857.4 Packaging - Transport packages - Basic test - Part 4. Compression and stacking tests using pressure testing machines

Method (GB/T 4857.4-2008, ISO 12048..1994, IDT)

GB/T 4857.5 Packaging transport package drop test method (GB/T 4857.5-1992, eqvISO 2248. 1985)

GB/T 4857.6 Rolling test method for packaging and shipping packages (GB/T 4857.6-1992, eqvISO 2876. 1985)

GB/T 4857.7 Packaging - Transport packages - Basic test - Part 7. Test method for sinusoidal fixed frequency vibration (GB/T 4857.7 -

2005, ISO 2247..2000, MOD)

GB/T 4857.9 Packaging transport packages - Basic test - Part 9. Spray test method (GB/T 4857.9-2008,

ISO 2875..2000, IDT)

GB/T 4857.10 Packaging - Transport packages - Basic test - Part 10. Sine - frequency vibration test method

(GB/T 4857.10-2005, ISO 8318..2000, MOD)

GB/T 4857.11 Packaging transport packages - Basic test - Part 11. Horizontal impact test method (GB/T 4857.11 -