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GB/T 5398-2016

Replacing GB/T 5398-1999

Test methods for large transport packages

大型运输包装件试验方法

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 5398-1999 *Test methods for large transport packages*. Compared with GB/T 5398-1999, in addition to editorial modifications, the main technical changes are as follows:

- in Scope, added “palletized unit load” (see Clause 1);
- further specified the definition of large transport package (see 3.1);
- modified the requirements of “impact countertop” (see 5.2);
- modified “Figure 1” “Figure 2” “Figure 3”;
- added the method of “free fall test” (see 6.6.1.4);
- added the method of “inclining test” (see 6.6.2).

This Standard was proposed by and shall be under the jurisdiction of National Technical Committee on Packaging of Standardization Administration of China (SAC/TC 49).

Main drafting organizations of this Standard: Quanzhou Yujie Rotary Joint Metal Hose Co., Ltd., Chengdu Dongyou Packing Co., Ltd., Mechanical Science Research Institute, Shenzhen Polytechnic.

Main drafters of this Standard: Huang Xue, Zhu Bin, Liu Yingping, Pei Fangfang, Jiang Guian, Wang Yuxin, Gao Jing.

Versions of standard substituted by this Standard are:

- GB/T 5398-1985, GB/T 5398-1999.

Test methods for large transport packages

1 Scope

This Standard specifies the test methods for falling, stacking, lifting and other tests of large transport packages.

This Standard is mainly applicable to large transport packages and palletized unit loads. Other shapes of packages of equivalent mass and volume can also refer to use.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 4122.1, *Packaging terms - Part 1: Basic*;

GB/T 4857.1, *Packaging - Complete, filled transport packages - Identification of parts when testing*;

GB/T 4857.2, *Packaging - Basic tests for transport packages - Part 2: Temperature and humidity conditioning*;

GB/T 4857.3, *Packaging - Basic tests for transport packages - Part 3: Stacking test methods using a static load*;

GB/T 4857.5, *Packaging - Transport packages - Vertical impact test method by dropping*;

GB/T 4857.6, *Packaging - Transport packages - Rolling test method*;

GB/T 4857.9, *Packaging - Basic tests for transport packages - Part 9: Water spray test*;

GB/T 4857.14, *Packaging - Transport packages - Toppling test method*;

GB/T 4857.17, *Packaging - Transport packages - General principles for the compilation of performance test schedules*

3 Terms and definitions

The terms and definitions specified in GB/T 4122.1 as well as the following ones apply to this Standard.

3.1 large transport package

the transport package of which its mass and volume requires mechanical loading and unloading

NOTE The mass of such package is generally greater than 45 kg. It usually requires packaging box, chassis or tray for fixing or transporting.

4 Test principle

The tests contained in this Standard use environmental simulation to reproduce hazards caused by falling, stacking, lifting...during the process of circulation of packages.

5 Test equipment

5.1 Lifting equipment

Any suitable equipment such as a crane, forklift, pulley block, jack or special test equipment can be used.

5.2 Impact countertop

The impact countertop should be flat and have a certain rigidity. When it withstands 10 kg of static load at any 10 mm × 10 mm, its deformation does not exceed 0.1 mm. The horizontal height difference between any two points on the impact countertop must not exceed 2 mm. For test sample of which the contact size with the surface of impact countertop exceeds 1000 mm, the maximum deviation of horizontal height difference between any two points is allowed not to exceed 5 mm. The mass of the impact countertop should be more than 50 times the test sample and big enough to ensure that the sample is completely on its surface.

6 Test procedure

6.1 Preparation of test sample

Prepare the test sample according to the requirements of GB/T 4857.17.

- g) the equipment and instrument type used for the test;
- h) the predetermined state of test sample during the test;
- i) test sample, test sequence and number of tests;
- j) record the test results and present the analysis report;
- k) describe the difference between the test method used and this Standard;
- l) test date, signature of test personnel, seal of test organization.

_____ **END** _____

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