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NATIONAL STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 9174-2008

Replacing GB/T 9174-1988

**General Specification for Transport Packages of
General Cargo**

一般货物运输包装通用技术条件

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**Jointly issued by: The General Administration of Quality Supervision,
Inspection and Quarantine (AQSIQ);
Standardization Administration (SAC) of the People's
Republic of China**

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Foreword

This Standard replaces GB/T 9174-1988 "General Specification for Transport Packages of General Cargo"

Compared with GB/T 9174-1988, the main changes in this Standard are as follows:

- Cancel "Product transport packages shall meet each technical requirement specified in this Standard" (1.1 of the 1998 edition);

- Cancel "Cargo transport packages shall be inspected, supervised and proposed of evaluation of test results by national authorized quality inspection department, and the certificate policy shall be gradually carried out"(Chapter 2 of the 1988 edition);

- Add Chapter "Normative references";

- Add dimension requirements of cylindrical and bag type and transport packages dimension and mass limited range (3.9, 3.10, 3.11 of this edition);

- Change Table 1 into provisions, and make corresponding modifications;

- Modify partial measurement units;

- Add "Package with its mass below 140kg shall be convenient for manual work; case-cargo with its mass within 140kg~1,500kg shall be convenient for forklift work and the center-of-gravity position of the cargo shall be marked out on package; case-cargo with its mass more than 1,500kg shall be convenient for crane work and the center-of-gravity position and the hoisting position of the cargo shall be marked out" (3.13 of this edition);

- Modify the performance test (Chapter 6 of this edition).

This Standard was proposed by and under the jurisdiction of National Technical Committee of Standardization of Packing.

Drafting organizations of this Standard: Shenzhen Baixing Industry Co., Ltd., and Standard Institute of Metrology of Ministry of Railways.

Chief drafting staffs of this Standard: Cheng Gang, Zhang Jin, Lan Shumei, Su Xuefeng, and Bai Zhigang.

The previous edition replaced by this Standard is:

- GB/T 9174-1988.

General Specification for Transport Packages of General Cargo

1 Scope

This Standard specifies the general requirements, types, technical requirements, and performance test for identification and inspection of transport packages of general cargo (hereinafter referred to as transport packages).

This Standard is applicable to transport packages of general cargo transported by railway, road, water transport, aviation. Excluding transport packages of dangerous cargo and live perishable cargo.

2 Normative References

The following documents contain provisions which, through reference in this Standard, become provisions of this Standard. For dated reference, subsequent amendments (excluding the correction) or revisions of these publications do not apply to this Standard. However, parties who enter into agreement based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. For undated references, the latest edition of the reference document is applicable to this Standard.

GB/T 191 "Packaging-Pictorial Marking for Handling of Cargo (GB/T 191—2008, ISO 780:1997, MOD)"

GB/T 325 "Packing Containers-Steel Drum"

GB/T 731 "Gunny bags; Technical Requirements"

GB/T 732 "Gunny bags; Grading Stipulation"

GB/T 4857 "Packaging — Basic Tests for Transport Packages"

GB/T 4892 "Dimensions of Rigid Rectangular Packages-Transport Packages"

GB/T 6543 "Single and Double Corrugated Boxes for Transport Packages"

GB/T 6544 "Corrugated Fiberboard"

GB/T 7284 "Wooden Framed Case"

GB/T 6980 "Calp Box"

GB/T 8946 "Plastic Knitted Bag"

GB/T 8947 "Composite Plastic Knitted Bag"

GB/T 9774 "Sacks for Packing Cement"

GB/T 12464 "Wooden Boxes (GB/T 12464-2002, JIS Z 1402: 1999, NEQ)"

GB/T 13201 "Packaging-Dimensions of Cylinder Transport Packages"

GB 13252 "Packing Containers-Steel Pails"

GB/T 13508 "Polyethylene Blown Containers"

GB/T 13757 "Packaging-Dimensions of Sack Transport Packages"

GB/T 16471 "Dimensional and Weight Constraints for Transport Packages"

GB/T 17343 "Packing Containers-Square Pail"

GB/T 18924 "Wirebound Boxes"

GB/T 18925 "Skid Wooden Boxes"

3 General Provisions

3.1 The main objective of transport packages is for the purpose of transport storage. It shall be provided with such functions that guaranteeing cargo transport safety, convenient for loading-unloading storage and transport, and accelerating handover check.

3.2 Transport packages shall meet the scientific, firm, economic and beautiful requirements.

3.3 At normal process of circulation, the transport packages shall ensure that it is capable of resisting and defending environment conditions effects with no breakage, damage etc. phenomena, and delivering the cargo to the destination safely and rapidly in intact state.

3.4 The packing material, accessory material and container of cargo transport shall meet the relevant requirements of domestic national standards and professional standards. Material and container without applicable standard shall be tested and verified that its performance may meet the requirements of circulation environment conditions.

3.5 The transport packages shall be intact and shaped. The cargo shall be uniformly distributed, compressed in volume, placed neatly, with appropriate gasket, its center-of-gravity position shall be in the center and as low as possible.

3.6 According to circulation environment conditions such as cargo character and carrying, loading and unloading, transport and storage, package with protective devices such as seismic, anti-theft, rain-proof, moisture-proof, anticorrosion, mold proof and dustproof shall be selected.

3.7 After filled with cargo, the transport packages shall be firmly sealed. For small light cargo which is easy to be lost, strengthening with adhesive tape sealing, nailing or complete bonding plus adhesive tape sealing shall be adopted. Adopt steel strip and plastic strapping strip etc. to make bundling strengthening in types such as two strips, three strips, cross, double cross, well-shaped, and double well-shaped according to the requirements of product name, volume, character, mass, length and transport mode of the cargo. The strapping tape shall be overlapped firmly with appropriate degree of tightness, smooth without torsion, and it shall not be less than 2 strips.

3.8 The bottom surface dimension of all kinds of square transport packages shall meet the requirements of GB/T 4892.

3.9 The dimension of all kinds of cylinder transport packages shall meet the requirements of GB/T 13201.

3.10 The dimensions of all kinds of bag transport packages shall meet the requirements of GB/T 13757.

3.11 The dimension limited range and the weight limited range of the transport packages shall meet the requirements of GB/T 16471.

3.12 The transport package mark according to the figures and characters of GB/T 191 shall be marked at distinct position of cargo in accordance with the cargo character and the special requirements for cargo storage and transport. The mark shall be correct, distinct, complete and firm. The cargo shall be in accordance with the mark. The mark shall be printed or marked in general, tie-hanging or sticking may also be permissible; the mark shall be free from color fading and shedding in the whole process of circulation. The old mark shall be erased.

for full winded cargo.

5.8.5 Adopt binding material with strong tension, and determine bundling mode and number of pieces according to cargo character, form, mass and its characteristic.

5.8.6 For bound, winded and tied parts where it is easy to be broken and folding cracked, it shall be thickly padded and fully winded.

5.8.7 Especially for cupboard, furniture etc., in addition to binding, they shall be specially protected and strengthened for exterior, the leg parts and the parts with glass. Furniture such as cabinet and cupboard are forbidden to be filled with stuff so as to avoid increasing the mass causing damage.

6 Performance Test

6.1 Test purpose

To simulate or repeat all kinds of hazards which might be encountered by transport packages in process of circulation and their capability to resist these hazards, or to perform arbitration if accident happens.

6.2 Determination of test items

Performance test for cargo transport packages usually consists of stacking test and vertical impact drop test.

Other corresponding tests may be selected according to the requirements of GB/T 4857 in accordance with cargo characters, package types, different transport modes and cargos, circulation environment conditions and the requirements of the cargo owner and transportation department; airtightness test and fluid tight test shall be selected according to GB/T 325.

6.3 Selection of test strength value

Select test strength value according to GB/T 4857 in accordance with transport modes and circulation time etc. The strength value specified in test is the minimum requirement for checking cargo transport packages strength.

Usually the contents inside the test sample shall be real stuff.

6.4 Evaluation of test result

6.4.1 Evaluation principle of test results

After a series of tests, the transport packages shall ensure that its contents are intact and the transport packages appearance shall be free from apparent defects and damages.

6.4.2 Evaluation of routine test result

6.4.2.1 Drop test

The package shall be free from any leakage and any damage that might affect transportation safety; after dropping, the package without affecting its service and without obvious damage shall be deemed as qualified.

6.4.2.2 Stacking test

Package without any leakage and any damage that might affect transportation safety or deformation that might affect stacking stability shall be deemed as qualified. For test affecting stacking stability, placing two packages of a sort on the deformed package may be adopted. It is deemed to be qualified if they keep in positions for more than 1h.

6.4.2.3 Hoisting test

The hoisting part without deformation or damage and the package in stability shall be deemed as qualified.

6.4.2.4 Airtightness test

Maintaining air tight under specified pressure shall be deemed as qualified.

6.4.2.5 Hydraulic pressure test

No-leakage shall be deemed as qualified.

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