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

GB/T 13384-2008

**General specifications for packing of mechanical and electrical
product**

机电产品包装通用技术条件

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Foreword

This Standard supersedes GB/T 13384-1992 General specifications for packing of mechanical and electrical product, and GB/T 15464-1995 General-purpose specification for the packaging of instrumentation products. Compared with GB/T 13384-1992 and GB/T 15464-1995, the major changes are as follows: - MODIFY the "General" to "Basic requirements"; - INTEGRATE the relevant contents of the packing mode and protective packaging method in the two standards; - CLARIFY the reference standards for the selection of wood and the allowable defects of various parts of the wood; MODIFY the requirements for content of moisture in wood; SUPPLEMENT the requirements for wood fumigation; - SUPPLEMENT the requirements for the methods of reinforcement of the packaging containers made of other materials; - In the content of the protective packaging, CLARIFY the reference standards; SIMPLIFY the standard content; - CLARIFY the reference standards for test items; CANCEL the selected test items; SIMPLIFY the standards. This Standard was proposed by and shall be under the jurisdiction of National Technical Committee for Standardization of Packaging (SAC/TC 49). Drafting organizations of this Standard. Shenzhen MYS Environmental Protection & Technology Co., Ltd, China Academy of Machinery Science and Technology Group Co., Ltd, China Productivity Center for Machinery. Main drafters of this Standard. Huang Xue, Cai Shaoling, Liu Ping, Zhang Xiaojian, Ren Guang. The previous released editions of the standards replaced by this Standard are as follows: - GB/T 13384-1992; - GB/T 15464-1995. General specifications for packing of mechanical and electrical product

1 Scope

GB/T 13384-2008 is the Chinese national standard on general specifications for packing of mechanical and electrical product, in the field of packaging and distribution of goods. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 18 July 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 January 2009. Classification: ICS 55.020, CCS A80. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This Standard specifies the basic requirements for the packaging, packing modes and protective packaging methods, technical requirements, test methods, packaging marks and accompanying files of machinery, electrical appliances, instrumentation and other products. This Standard is applicable to the transport packages of machinery, electrical appliances, instrumentation and other products.

2 Normative references

The provisions in the following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, parties who reach an agreement based on this Standard are encouraged to study if the latest editions of these documents are applicable. For undated references, the latest editions apply to this Standard.

GB/T 191 Packaging -- Pictorial marking for handling of goods (GB/T 191- 2008, ISO 780.1997, MOD)

GB/T 4768 Mould-proof packaging

GB/T 4857 (all parts) Packaging -- Basic tests for transport packages

GB/T 4879 Rustproof packaging

GB/T 4892 Dimensions of rigid rectangular packages -- Transport packages

GB/T 4897 (all parts) Particleboard

GB/T 5048 Moisture-proof packaging

GB/T 5398 Test methods for large transport packages (

GB/T 5398-1999, neq ASTM D 1083.1991)

GB/T 6543 Single and double corrugated boxes for transport packages

GB/T 6544 Corrugated fiberboard GB/T 6980 Calp box

GB/T 7284 Wooden framed case

GB/T 7350 Waterproof packaging

3 Basic requirements

3.1 Packaging shall meet scientific, economical, firm, aesthetic and marketable requirements. In the circulation environment, it shall be ensured that the product does not cause rust, mildew, reduced accuracy, damage or loss due to improper packaging during the agreement period between the supply and demand sides.

3.2 Packaging design shall be based on product characteristics, circulation environment conditions, and customer requirements, so that the packaging is compact, safe and reliable, with reasonable protection.

3.3 The product must be qualified after inspection and well protected before exterior and interior packing. The accompanying files shall be complete.

4 Packing modes and protective packaging methods

4.1 The packing modes mainly include box package (common wooden cases, skid wooden boxes, wooden framed cases, corrugated boxes, plywood cases, fiberboard cases, calcium-plastic boxes, magnesium oxychloride concrete cases, cases with plybamboo, plastic cases, calcium-plastic corrugated boxes [Translator. CALP boxes], metal boxes, honeycomb pallet boxes, etc.),

4.2 The protective packaging methods mainly include: waterproof packaging, moisture-proof packaging, mould-proof packaging, rustproof packaging, cushion packaging, dust-proof packaging, anti-electrostatic packaging, etc.

5 Technical requirements

5.1 Packaging material The selected packaging material shall not cause color change or rust on the surface of the product, nor shall it cause damage to the product due to deformation of the packaging material.

5.1.1 Wood The wood for packaging shall meet the following requirements.

5.1.2 Corrugated fiberboard The corrugated fiberboard for packaging shall comply with the provisions of GB/T 6544.

5.1.3 Plywood The plywood for packaging shall comply with the provisions of GB/T 9846.

5.1.4 Fiberboard The fiberboard for packaging shall comply with the provisions of GB/T

12626.

5.1.9 Other materials The packaging can also use other materials that have been proven to be reliable in performance after test, and can also use two or more materials. However, regardless of the type of material used, it shall be ensured that its strength and performance conform to the characteristics of the product and the requirements for the circulation environment.

5.2.2 Packing

5.2.2.1 When packing the product, its center of gravity shall be lower centered as far as possible. Products with a high center of gravity shall use horizontal packaging as much as possible. Products of which the centers of gravity have more obvious deviations from the center shall take corresponding balance measures.

5.2.3 Reinforcement

5.2.3.1 After sealed, the wooden boxes shall be reinforced according to the provisions of the relevant wooden box standard.

5.2.4 Each packaging box shall have sufficient strength. According to the mass and characteristics of the package, the test items such as the test methods specified in Chapter 6 shall be selected as the relevant test items. After the test, there shall be no obvious displacement of the fixture inside the box; the appearance, performance, accuracy, and relevant technical parameters of the product shall be within the allowable tolerances; the packaging box shall be free from obvious damage and deformation, and shall comply with the provisions of relevant standards and the design requirements.

5.3 Open package When the open package skid is made of wood, it shall comply with the provisions of GB/T 10819. When the skid is made of other materials, it shall be designed, produced, and packed based on its material characteristics and strength, with reference to the principle specified in GB/T 10819. The product shall be fastened to the skid to prevent movement during transportation.

6 Test methods

In accordance with the characteristics and requirements of the package itself, as well as the actual environmental conditions of circulation, the relevant items in GB/T 4857, GB/T 5048, GB/T 4879, and GB/T 5398 shall be appropriately tested.

7 Packaging marks and accompanying files

7.1 When the products are packed in multiple boxes, the box number shall be expressed in a fraction. The numerator shall be the box number; the denominator shall be the total number of boxes. The main box shall be No. 1 box.