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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GB/T 4879-2016

Replacing GB/T 4879-1999

Rustproof packaging

防锈包装

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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 4879-1999 “Rustproof packaging”. In addition to editorial changes, as compared with GB/T 4879-1999, the main technical changes of this standard are as follows:

- RE-DESCRIBE the Chapter 1 “Scope”;
- DELETE the Chapter 3 “Terms”;
- MODIFY the rustproof period of the level 1 packaging from “within 3 ~ 5 years” into “2 years”; MODIFY the rustproof period of the level 2 packaging from “within 2 ~ 3 years” into “1 year”; MODIFY the rustproof period of the level 3 packaging from “within 2 years” into “0.5 year” (SEE 3.2);
- ADD the description of the rustproof level of special packaging (SEE 3.2);
- DELETE the provisions on rustproof materials (SEE 5.2.1 and 5.2.2 of the 1999 version);
- MERGE the “Environmental requirements” (SEE 5.3 of the 1999 version) and “General requirements” (SEE Chapter 4);
- DELETE the provisions on “marking” (SEE Chapter 8 of the 1999 version);
- COMBINE B3 and B5 in Table A.4 in Appendix A; COMBINE B4 and B9; MAKE appropriate modifications;
- MODIFY part of “A.4 Packaging” in Appendix A.

This standard was proposed by AND shall be under the jurisdiction of the National Packaging Standardization Technical Committee (SAC/TC 49).

The main drafting organizations of this standard: Shenyang Rustproof Packaging Materials Limited Liability Company, Shenzhen Vocational and Technical College, Quanzhou Yujie Rotary Joint Metal Hose Co., Ltd., Mechanical Science Research Institute, Working Committee for the Development and Construction of Civil-Military Integration Package.

The main drafters of this standard: Huang Xue, Li Weizhe, Pei Fangfang, Tang Yanqiu, Chen Xiulan, Wang Yuxin, Li Jianhua, Zhu Bin.

This Standard replaces the standard previously issued as follows:

- GB/T 4879-1985, GB/T 4879-1999.

Rustproof packaging

1 Scope

This standard specifies the rustproof packaging level, general requirements, material requirements, rustproof packaging methods, and test methods.

This standard applies to the design, production and inspection of rustproof packaging.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this Standard.

GB/T 5048 Moistureproof packaging

GB/T 12339 Inner packaging materials in preservation

GB/T 14188 General rules for selection and using of packaging materials with volatile corrosion inhibitor

GB/T 16265 Test method of packaging materials - Compatibility

GB/T 16266 Test method of packaging materials - Contact corrosion

GB/T 16267 Test method of packaging materials - Vapor corrosion inhibiting ability

GJB 145A-1993 Specification for protective packaging

GJB 2494 Specification for humidity indicator card

BB/T 0049 Mineral desiccant for packaging

3 Rustproof packaging level

3.1 It shall determine the rustproof packaging level through comprehensive consideration of such factors as the nature of the product, circulation environment conditions, and the rustproof period, etc.

3.2 Rustproof packaging level is generally divided into level 1, 2, and 3, as shown in Table 1. When there is special requirement for the packaging materials, it may follow such special requirement.

5 Material requirements

5.1 As for the rustproof materials used in the product, its quality shall meet the requirements of relevant standards.

5.2 Desiccants are generally of mineral desiccants. Mineral desiccant shall be in accordance with BB/T 0049.

5.3 The vapor rustproof packaging materials shall comply with the relevant provisions of GB/T 14188.

5.4 The inner packaging materials for protection shall comply with the relevant provisions of GB/T 12339.

5.5 The rustproof packaging materials shall, in addition to the relevant tests, be subjected to the compatibility test in accordance with the provisions of GB/T 16265, the contact corrosion test in accordance with the provisions of GB/T 16266, AND the vapor corrosion test in accordance with the provisions of GB/T 16267.

5.6 If necessary, it shall use a humidity indication card, humidity indicator or humidity indication device, AND they shall be as far away as possible from the desiccant. The humidity indication card shall comply with the relevant provisions of GJB 2494.

6 Rustproof packaging method

6.1 It shall determine the rustproof packaging methods based on the following conditions:

- a) The characteristics of the product and the degree of surface processing;
- b) The duration of transport and storage;
- c) The environmental conditions for transport and storage;
- d) The degree of load the product is subjected to during the circulation;
- e) The rustproof packaging level.

6.2 The rustproof packaging is divided into cleaning, drying, rust-proofing and packaging:

- a) Cleaning: it shall remove the dust, grease residue, perspiration and other foreign matter from the product surface. It may select one or more methods from A.1 for cleaning purposes.
- b) Drying: The metal surface of the product shall be dried immediately after cleaning. It may select one or more methods from A.2 for drying purposes.

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Contact: Wayne Zheng, Sales@ChineseStandard.net

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