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

BB/T 0049-2021

**Desiccant for packaging
(English Translation)**

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Foreword

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

This standard replaces BB/T 0049-2008 "Mineral Desiccant for Packaging".

Compared with BB/T 0049-2008, the main changes of this standard are as follows.

- The standard name was changed to "Desiccant for Packaging";
- The scope of application of the standard has been modified (see Chapter 1, Chapter 1 of the 2008 edition);
- Modified terms and definitions (see 3.1~3.4, Chapter 3 of the 2008 edition);
- Added the classification method of desiccant (see 4.1);
- Added the requirements for the drop resistance of the desiccant (see 5.1.4);
- Modified the physical and chemical indexes of desiccant (see 5.1.5, 5.5 in 2008 edition);
- The calculation of the amount of desiccant has been added (see 5.1.6);
- Deleted the requirements for the unit quantity, adsorption capacity and speed of each bag of desiccant after activation (see 5.3 and 5.4 of the 2008 edition);
- Added the technical requirements for desiccant bags (see 5.2);
- Modified the test method (see Chapter 6, Chapter 6 of the 2008 edition);

---Inspection rules have been added (see Chapter 7);

---Modified some technical contents of marking, packaging, transportation and storage (see 8.1.1 and 8.2, 7.1.1 and 7.1.1 of the 2008 edition) 7.2);

---Added Appendix A (see Appendix A).

This standard was proposed and managed by the National Packaging Standardization Technical Committee (SAC/TC49).

Drafting organizations of this standard. Hangzhou Qianjiang Industrial Co., Ltd., Tepco Industrial Co., Ltd., Shunde District, Foshan City, Shenzhen Chunwang Environmental Protection Division Technology Co., Ltd., China Export Commodity Packaging Research Institute, Jiangsu Oukai Packaging Technology Co., Ltd., Shanghai Yingqi Desiccant Co., Ltd., Jia Xingxingyue Packaging Materials Co., Ltd., Nanjing Xinluye Industrial Co., Ltd., Xiangtan Yiyao Technology Co., Ltd., Beijing Physical and Chemical Analysis and Testing Center, Beijing Product Quality Supervision and Inspection Institute, Hunan Product Quality Supervision and Inspection Institute, Shenzhen Baoxing Logistics Pallet Co., Ltd.

1 Scope

This standard specifies the classification, requirements, test methods, inspection rules and markings, packaging, Transportation and storage.

This standard applies to the production, development and inspection of desiccants for packaging.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 191 Packaging, storage and transportation pictorial signs GB/T 699 High-quality carbon structural steel GB/T 1037 Test Method for Water Vapor Permeability of Plastic Films and Sheets Cup Method GB/T 2040 Copper and copper alloy plates GB/T 3191 Aluminum and aluminum alloy extruded bars GB/T 5154 Magnesium and magnesium alloy plates and strips GB/T 6388 Transport packaging receiving and dispatching signs GB/T 7707 Intaglio printing for decoration GB/T 10004 Plastic composite film, bag dry composite, extrusion composite for packaging GB/T 17497.2 Flexographic decorative printed matter Part 2: Plastics and metal foils GJB2494 Humidity Indicator Card Specification GJB2605 Specification for heat-sealable flexible anti-static resistance insulation material GJB2714 static moisture-absorbing bag active desiccant for packaging HG/T 2524 4A molecular sieve QB/T 1130 Test method for right-angle tear performance of plastics QB/T 2358 Test

Method for Heat Sealing Strength of Plastic Film Packaging Bags SJ/T 10694 General specification for anti-static testing of electronic product manufacturing and application systems YBB 00122005-2015 solid medicinal paper bag silica gel desiccant

3 Terms and definitions

The following terms and definitions apply to this document.

Unit desiccant

Under the equilibrium air temperature condition of 25°C and 20% relative humidity (or 25°C and 40% relative humidity), it can absorb at least 3.00g (or 6.00g) The amount of desiccant for water vapor is determined as one unit of desiccant.

Unitmass

The mass of a unit of desiccant.