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

GB 23350-2021

**Requirements of restricting excessive package - Foods and
cosmetics**

限制商品过度包装要求 食品和化妆品

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Foreword

This Document was drafted as per the rules specified in GB/T 1.1-2020 Directives for Standardization - Part

1.Rules for the Structure and Drafting of Standardizing Documents. This Document replaced GB 23350-2009 Requirements of Restricting Excessive Package - Foods and Cosmetics. Compared with GB 23350-2009, the major changes in technical contents of this Document are as follows:

- Delete normative references (see Clause 2 of the 2009 Edition);
- Change the definitions of terms such as contents, package layers, interspace ratio, excessive package, and necessary spatial coefficient of commodity; and add the definition of term such as multiple products (see Clause 3 of this Edition; Clause 3 of the 2009 Edition);
- Change the basic requirements (see
 - 4.1 of this Edition;
 - 4.1 of the 2009 Edition);
- Change the limit requirements (see
 - 4.2 of this Edition;
 - 4.2 of the 2009 Edition);
- Add test (see Clause 5 of this Edition);

--- Change the calculation method of interspace ratio (see 5.4 of this Edition; 5.1 and Appendix A of the 2009 Edition);

1 Scope

GB 23350-2021 is the Chinese national standard on requirements of restricting excessive package - foods and cosmetics, in the field of packaging and distribution of goods. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 10 August 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 September 2023. 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 Document specifies the requirements, testing and judgment rules for restricting excessive packaging of foods and cosmetics. This Document is applicable to food and cosmetics sales packaging, not to gifts or non-sale items.

2 Normative References

This document has no normative references.

3 Terms and Definitions

For the purposes of this Document, the following terms and definitions apply.

3.1 Excessive package The package whose interspace ratio, package layers, and package cost exceed the requirements.

3.2 Sales package The package that mainly aims to sell and reaches the consumers together with the contents.

3.3 Contents The foods or cosmetics contained in the package.

3.6 Single piece Items with independent package and that are clearly marked net content.

3.7 Package layers The physically detachable package layers that completely wrap the contents.

3.8 Necessary spatial coefficient of commodity A correction factor for the measurement of space that is required to protect food or cosmetics.

4 Requirements

4.1 Interspace ratio The interspace ratio of food and cosmetics shall comply with the provisions of Table 1.

4.2 Package layers Grain and its processed products shall not exceed three layers, and other commodities shall not exceed four layers.

4.3 Package cost The production organization shall take measures to control the cost of all packages, except for the package directly in contact with the contents, not to exceed 20% of the product's sales price.

5 Test

5.1 Sampling For foods and cosmetics of the same variety and package style, the sampling quantity is one piece.

5.2 Equipment and tools Testing equipment and tools such as rulers, callipers, volume measuring instruments, etc. for measurement shall meet the testing requirements and be accurate to 1mm or 1mm³.

5.3 Method of measuring sales package volume

5.3.1 The first method. instrument method (arbitration method) After calibrating the volume measuring instrument in accordance with the operating procedures under normal temperature and pressure, place the product sales package on the instrument measurement platform; start the measurement program; measure the product sales package; and repeat three times; take the arithmetic average value to calculate the product sales package volume.

5.3.3 The third method. other methods When measuring the volume of product sales package by the drainage method or similar methods, under normal temperature and pressure, immerse the sales package in a container that has accurately measured the volume of water (or other uniform fine particles);

5.4 Calculation method of interspace ratio

5.4.1 Calculation Calculate according to formula (1).

5.4.2 Repeatability The absolute difference between two independent determination results obtained under repeatability conditions shall not exceed 10% of the arithmetic mean.

5.5 The calculation method of the package layers

5.5.1 The package that directly touches the contents is the first layer, and so on, the outermost package is the Nth layer, and N is the package layers.

5.6 Calculation method of package cost Calculate according to formula (2).

6 Judgment Rules

If one item of the commodity package does not meet the requirements specified in Clause 4, the package of the commodity shall be judged to be excessive package.

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