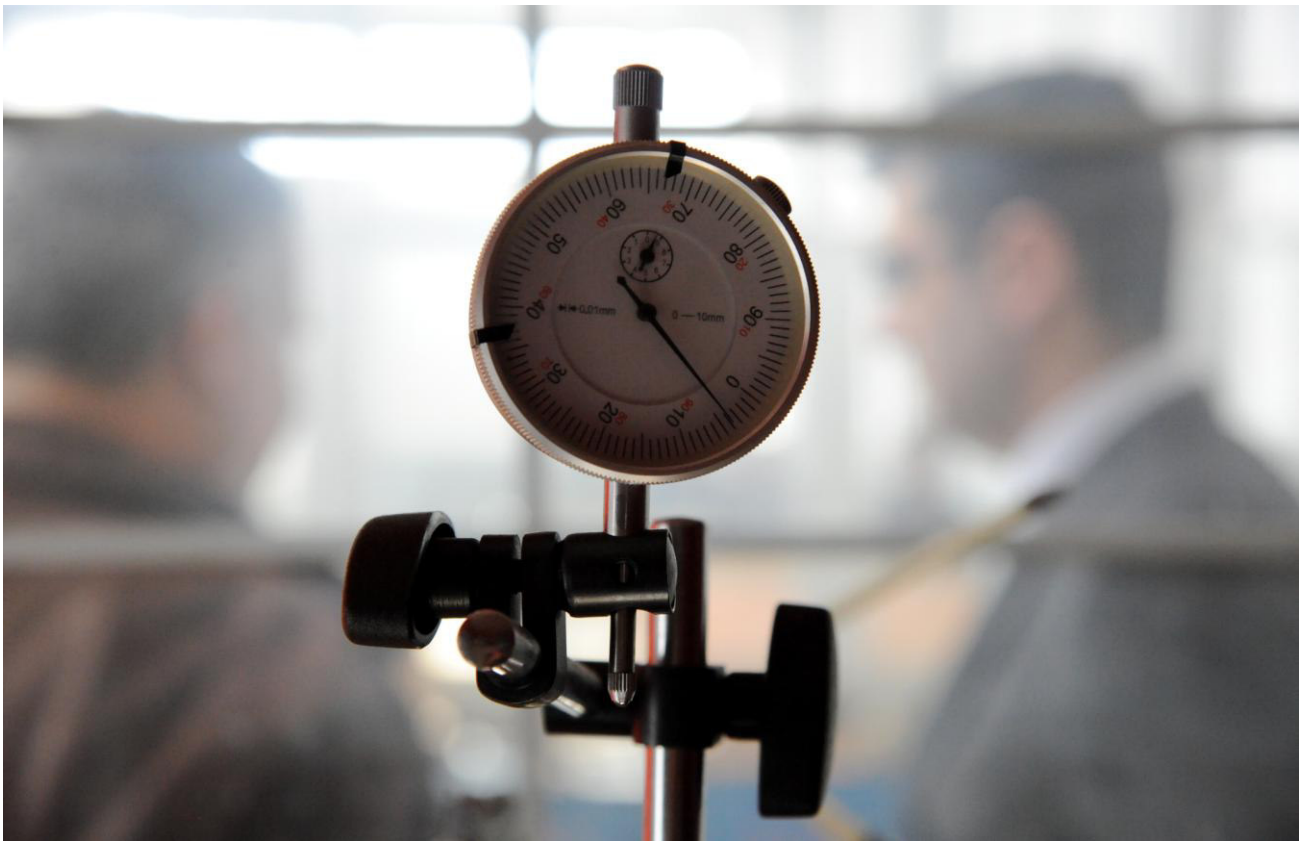


Technical Inputs



National Standard of People's Republic of China

GB/T 17109-2008

Package of grain sells

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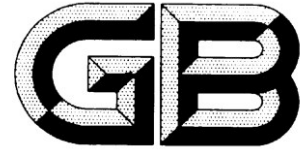
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National Standard of the People's Republic of China

GB/T 17109 -- 2008

Replaced GB/T 17109 -- 1997

Package of grain sells

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Issued by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China and the Standardization Administration of the People's Republic of China

Foreword

This national standard is a revised version of GB/T 17109 -- 1997 Package of grain sells.

The main technical differences between this standard and GB/T 17109 -- 1997 are as follows:

- The scope is changed;
- The terms and definitions are changed;
- The requirements for packaging materials are changed;
- The requirements for packaging specifications are changed;
- The requirements for inner objects are cancelled.

This standard will replace GB/T 17109 -- 1997 from the issue date of this standard.

This standard is proposed by the State Administration of Grain.

This standard is under the jurisdiction of the National Standardization Technical Committees of Grain and Oil.

This standard is drafted by Henan University of Technology, Xinxiang Flour Factory and Hangzhou Hengtian Flour Group Co., Ltd.

Main drafters of this standard are Wu Cunrong, Liu Jixing, Kong Jinxiang, Tang Huanjian, Min Guochun, Wu Dajiang, Chen Zhicheng and Zhang Juan.

This standard will replace the standard of the previous version:

-- GB/T 17109 -- 1997.

Package of grain sells

1 Scope

This standard specifies the terms and definitions, technical requirements, inspection methods, inspection rules, labels, as well as storage and transportation of packages of grain sells. This standard is applicable to the packages of granular grain and powdery grain.

2 Normative references

The following documents contain provisions which, through reference in this standard, constitute provisions of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. However, it is encouraged for each party entering agreement according to this standard to decide whether to use the latest versions of these documents. In addition, the latest versions of all reference documents without dates are applicable to the standard.

GB/T 191	Packaging - Pictorial marking for handling of goods
GB/T 4857.5	Packaging - Transport packages - Vertical impact test method by dropping
GB 9683	Hygienic standard for composite laminated food packaging bag
GB 9685	Hygienic standards for uses of adjuvants and processing aids in food containers and packaging materials
GB 9686	Hygienic standard of polyamide, epoxy resin coating for inner wall of food container
GB/T 17344	Packaging - Packing containers - Air-tight test method

3 Terms and definitions

The following terms and definitions are applicable to this standard.

3.1 Package of grain sells

General term of the packaging containers and materials made according to relevant technical requirements for the purpose of sales, used to protect food quality and for

the convenience of storage and transportation.

3.2 Packaging container and material

Materials directly or possibly touching grain for direct sales

3.3 Container

General term of the containers holding grain processing products

4 Technical requirements

4.1 Basic requirements

4.1.1 Packaging materials should be clean and hygienic, and should be prevented from having chemical reactions with grain. In addition, the packaging materials shall conform to the relevant national food hygiene standards and regulations.

4.1.2 Packaging containers should be easy to open, use, transport and store for consumers; could protect safety and hygiene of food and conform to the hygiene standards for packaging containers accordingly.

4.1.3 The production of packaging containers requires the food packaging hygiene license. Those which have been incorporated into the management scope of the container production licenses should be certified by the corresponding bodies and should obtain the production licenses.

4.2 Requirements for packaging materials

4.2.1 Safe, hygienic and environmental protective packaging materials should be selected reasonably in accordance with the technical requirements for packaging.

4.2.2 Packaging materials should not have such physical or chemical reactions with inner objects as to damage the inner objects.

4.2.3 Packaging containers and materials directly touching their inner objects should comply with the requirements in the hygiene standards and product standards of the corresponding materials.

4.2.4 Auxiliary packaging materials should comply with the requirements of GB 9685 and internal coatings should comply with the requirements of GB 9686.

4.2.5 Packaging materials using packaging technologies such as controlled atmosphere and vacuum packaging, their air tightness should comply with the

relevant standards.

4.3 Requirement for packaging containers

4.3.1 All kinds of packaging containers should comply with the corresponding product standards and meet the requirements mentioned in sections 4.3.2 to 4.3.5.

4.3.2 The specifications and dimensions of packaging products should be designed to provide sufficient space for sealing, controlled atmosphere or vacuum packaging. The specifications and dimensions of packaging products should comply with the relevant standards and regulations, and match the dimensions of the corresponding transportation packages.

4.3.3 Series of packaging specifications should comply with the regulations in Table 1.

Table 1 Specification Series for Packages of Grain Sells

Type	Series of specifications/kg
Granular grain	1, 2, 2.5, 5, 10, 15, 20, 25 and 50
Powdery grain	0.5, 1, 1.5, 2, 2.5, 5, 10, 25, 40 and 50

4.3.4 The intensity of packaging containers should comply with the requirements of GB/T 4857.5.

4.3.5 Composite packaging bags should comply with the requirements of GB 9683.

5 Inspection methods

5.1 Quality inspection: The quality inspection of all kinds of packaging containers is carried out according to the provisions of the relevant product standard.

5.2 Air tightness inspection: According to the provisions of GB/T 17344.

5.3 Packaging intensity inspection: According to the provisions of GB/T 4857.5.

6 Inspection rules

6.1 Sampling: Packaging container samples of different materials and different shapes are selected according to the corresponding method. The number of samples for packaging bags is decided through random sampling according to Table 2.

6.2 The quality of packages of grain sells is inspected according to the requirements in section 4.3. If one item fails to meet the requirement, the packages are judged to

be unqualified and cannot be used for grain packaging.

Table 2 Number of samples

Batch/Piece	Number of samples
≤ 10	All
10–250	≥ 10
> 250	≥ 30

7 Labels

7.1 The labels on the packages made of the materials such as ceramic, glass and enamel should comply with the provisions of GB/T 191.

7.2 The decoration and printing on the surface of packaging containers should comply with the provisions of the trademark law.

8 Transportation and storage

8.1 Collision and rolling avoided in the in transportation of containers made of the materials such as ceramics, glass and enamel as well as barrel containers; bag containers should be protected from sunshine, rain and pollution.

8.2 Packages should be stored in dry and ventilated places and should not be exposed to rain or sunshine or be affected with damp.

8.3 Storage places should comply with the hygiene requirements and should not pollute the inner objects of packages.

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