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GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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GB/T 8885-2008

Replacing GB/T 8885-1988

Edible corn starch

食用玉米淀粉

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Foreword

This Standard replaces GB/T 8885-1988 "Edible corn starch".

Compared with GB/T 8885-1988, the main differences in this Standard are as follows:

- According to food safety and hygienic requirements and international practice, add microbiological criteria;
- ADD inspection rules;
- REVISE the sensory requirements TO: appearance and smell; CANCEL taste and impurities;
- Colour and whiteness are no longer valued according to white corn and yellow corn;
- Moisture of each level is uniformly revised to be not more than 14.0%;
- Acidity is revised to: premium grade products of no more than 1.50°T, first grade products of not more than 1.80°T, second grade products of not more than 2.00°T;
- Ash content is revised to: second grade products of not more than 0.18%;
- Protein is revised to: premium grade products of no more than 0.35%, first grade products of not more than 0.45%, second grade products of not more than 0.60%;
- Spots is revised to: premium grade products of not more than 0.7/cm², second grade products of not more than 1.0/cm²;
- Fineness is revised to: premium grade products of not less than 99.5%, first grade products of not less than 99.0%, second grade products of not less than 98.5%;
- Fat is revised to: premium grade products of not more than 0.10%, first grade products of not more than 0.15%, second grade products of not less than 0.20%;
- Whiteness is revised to: premium grade products of not less than 88.0%, first grade products of not less than 87.0%, second grade products of not less than 85.0%;
- Sensory test and test methods of protein, fat and sulphur dioxide are conducted according to GB/T 12309 "Industrial corn starch";

Edible corn starch

1 Scope

This Standard specifies the requirements, test methods, inspection rules, labelling, marking, packaging, transportation and storage of edible corn starch.

This Standard applies to edible starch produced by corn (raw materials shall comply with food standards).

2 Normative references

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

GB/T 191 Packaging - Pictorial marking for handling of goods

GB/T 4789.3 Food microbiological examination - Enumeration of coliforms

GB/T 4789.15 Food microbiological examination - Enumeration of moulds and yeasts

GB/T 5009.11 Determination of total arsenic and abio-arsenic in food

GB/T 5009.12 Determination of of lead in foods

GB/T 5009.53-2003 Method for analysis of hygienic standard of products made by starch

GB 7718 General standard for the labelling of pre-packaged foods

GB/T 12086 Method for determination of ash in starches

GB/T 12087 Starch - Determination of moisture content - Oven-drying method

GB/T 12095 Method for determination of spot of starch

GB/T 12096-1989 Method for determination of fineness of starch

CONDUCT according to GB/T 12096-1989. Wherein 4.2 is conducted according to the following specification: 0.15mm test screen.

4.9 Whiteness

CONDUCT according to GB/T 12097-1989. Wherein 4.1 is conducted according to the following specifications: whiteness meter: wavelengths is between 420nm ~ 470nm, with a suitable sample box and standard whiteboard, accurate to 0.1.

4.10 Sulphur dioxide

CONDUCT according to 4.3.8 in GB/T 12309-1990.

4.11 Arsenic

CONDUCT according to GB/T 5009.11.

4.12 Lead

CONDUCT according to GB/T 5009.12.

4.13 Coliforms

CONDUCT according to GB/T 4789.3.

4.14 Mould

CONDUCT according to GB/T 4789.15.

5 Inspection rules

5.1 Batch and sampling

5.1.1 Batch

The products that are well packaged, of the same type and same specification, produced by same batch of raw materials, at same production date, in same production line are deemed as a batch.

5.1.2 Sampling

Sampling scheme of each batch is calculated according to Formula (1):

$$n = \sqrt{N/2} \dots\dots\dots (1)$$

Where:

n - Number of packages sampled, in bags;

N - Total number of package in batches, in bags.

5.2 Exit-factory inspection

Exit-factory inspection items are sensory requirements and physiochemical indicators, the products can only exit the factory after the inspection is qualified.

5.3 Type inspection

5.3.1 Type inspection includes all items in technical requirements.

5.3.2 The products are inspected once every six months during normal production. It shall inspect timely if the following conditions occur:

- a) when type identification of new products;
- b) when key process and device are changed;
- c) when production is resumed after it has been shut down for more than six months;
- d) when there are big difference between results of factory-exit inspection and last type inspection;
- e) when it is required to conduct type inspection by the national quality supervision agencies or the competent departments.

5.4 Determination rules

5.4.1 If there is one item of hygienic indicators is determined unqualified, then this batch of products is determined unqualified.

5.4.2 Re-inspection: products with unqualified labelling, marking and packaging are allowed to apply for re-inspection once after correction, the re-inspection results shall prevail. If there is one item of sensory requirements and physiochemical indicators is determined unqualified, then it can double sampling to inspect, the re-inspection results shall prevail.

6 Labelling, marking, packaging, transportation and storage

6.1 Labelling, marking

Labelling is conducted according to GB 7718; marking shall meet the requirements of GB/T 191.

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