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**Grades and specifications of soybean**

大豆等级规格

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# Grades and specifications of soybean

## 1 Scope

This document specifies the terms and definitions, classification, grade and specification requirements, sampling methods, test methods, inspection rules, labeling, packaging, storage and transportation of soybeans.

This Standard applies to commodity soybeans.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB 1352-2009, *Soybean*

GB/T 5490, *Inspection of grain and oils - General rules*

GB 5491, *Inspection of grain and oilseeds. Methods for sampling and sample reduction*

GB/T 5492, *Inspection of grain and oils - Identification of colour, odor and taste of grain and oilseeds*

GB/T 5494, *Inspection of grain and oils - Determination of foreign matter and unsound kernels of grain and oilseeds*

GB/T 5497, *Inspection of grain and oilseeds. Methods for determination of moisture content*

GB/T 5511, *Cereals and pulses - Determination of the nitrogen content and calculation of the crude protein content - Kjeldahl method*

GB/T 5512, *Inspect of grain and oilseeds - Determination of crude fat content in grain*

GB/ T 5519-2008, *Cereals and pulses - Determination of the mass of 1000 grains*

GB 7718, *National food safety standards - General Principles of pre-packaged food labels*

## 3 Terms and definitions

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

### 3.1 high-oil soybean

Soybeans with crude fat content (dry basis) not less than 20.0%.

### 3.2 high-protein soybean

Soybeans with crude protein content (dry basis) not less than 40.0%.

### 3.3 mass of 100 soybeans

The mass of whole soybeans per hundred grains under the condition of moisture content of 13%.

## 4 Classification

According to the provisions of Chapter 4 of GB 1352-2009.

## 5 Requirements

### 5.1 Grades

#### 5.1.1 Basic requirements for grades

Each grade of soybeans shall meet the following basic conditions:

- With normal color and smell of soybeans;
- Impurity content  $\leq 1.0\%$ ;
- Moisture content  $\leq 13.0\%$ .

#### 5.1.2 Classification of soybean grades

Under the premise of meeting the basic requirements for grades, soybeans are divided into five grades: grade 1, grade 2, grade 3, grade 4 and grade 5 according to the percentage of intact kernels and damaged kernels. The classification of soybean grades shall comply with the provisions in Table 1.

According to the provisions of GB/T 5512.

### **7.6 Crude protein**

According to the provisions of GB/T 5511.

### **7.7 Mass of 100 soybeans**

Measure according to the method specified in GB/T 5519-2008. Convert the calculation result into mass of 100 soybeans under 13% moisture. The result is rounded to one decimal place.

## **8 Inspection rules**

**8.1** The general rules of inspection shall be carried out according to the provisions of GB/T 5490.

**8.2** The inspection batches are soybeans of the same variety, same origin, same harvest year, same transport unit, and same storage unit.

**8.3** Soybeans are rated according to the percentage of intact kernels. Grade 3 is medium. If the intact kernel rate is lower than the minimum grade, it shall be regarded as off standard.

**8.4** High-oil soybeans are rated according to the crude fat content. Grade 2 is medium. Soybeans with a crude fat content lower than the minimum grade shall not be regarded as high-oil soybeans.

**8.5** High-protein soybeans are rated according to crude protein content. Grade 2 is medium. Soybeans whose crude protein content is lower than the minimum grade shall not be regarded as high-protein soybeans.

## **9 Labelling**

In addition to complying with the provisions of GB 7718, it shall also comply with the following provisions:

- The name, category, grade, specification, place of origin, harvest year and month of the product shall be indicated on the package or in the accompanying documents.
- Genetically modified soybeans shall be labeled in accordance with relevant national regulations.

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