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LS

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

LS/T 1707.2-2017

Replacing LS/T 1707.2-2004

**Classification and codes of grain information. Grain storage.
Part 2: Classification and codes of stored-grain condition
(English Translation)**

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Foreword

LS/T 1707 "Food Information Classification and Coding Grain Storage" is divided into three parts.

- Part 1. Classification and code of warehouse operations;
- Part 2. Classification and code of food situation detection;
- Part 3. Equipment classification and code.

This part is the second part of LS/T 1707.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section replaces LS/T 1707.2-2004. The main technical changes compared with LS/T 1707.2-2004 are as follows.

- Added "hypoxia (< 2%)" "hypoxia (>2% and < 21%)" "normal oxygen content (21%)" "high carbon dioxide content (>=35%)" "Normal carbon dioxide content (0.03%)" "Insecticidal concentration (>=100mL/m3)" "below insecticidal concentration Technical indicators such as (< 100mL/m3)" "bacterial concentration (>=300mL/m3)";
- Removed the original standard "has a feeding pest", "no feeding pest", "hazardous pest", "non-hazardous pest", because Several items are not operability in production practice;
- Increased the relevant testing content of oil storage.

This part is based on GB/T.20001.3-2015 "Standard writing rules Part 3. Classification standards", GB/T 7027-2002 "Information the basic principles and methods of classification and coding, combined with the comprehensive coding of the main grain detection content during grain storage.

This part is proposed and managed by the National Grain Bureau.

This section drafted by. Henan University of Technology, National Grain and Oil Information Center.

1 Scope

This part of LS/T 1707 specifies the classification principles and methods of food rations commonly used in grain storage enterprises, code coding methods, and code knots.

Technical indicators such as construction, coding principles, grain inspection classification and code tables.

This section applies to information processing and information exchange in the food industry.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 29890 Grain and Oil Storage Technical Specifications

3 Classification principles and methods

3.1

This section classifies and codes the common grain inspection content involved in grain storage enterprises.

3.2

This section uses the line classification method.

4.1 Coding method

4.1.1

This part adopts the hierarchical code. The code is divided into three levels, and each level is named as a large class, a small class, and a fine class.

4.1.2

This code is represented by 3 digits of Arabic numerals, each layer being represented by a single digit. The first layer code is 1~9, and the second layer code is 1~9, the third layer code is 1~9, and each layer code is sequential code.

4.2 Code Structure

First class

Second class

Third layer

Code

5 Coding principles

5.1

This section basically covers the food situation detection involved in the warehousing enterprise. The order and level of all codes are irrelevant to the importance.

5.2

Codes generally do not use the number "0".

6 Grain condition classification and code table

The classification and code table of grain inspection are shown in Table 1.

Table 1 Classification and code of food inspection

Code name description

1 Temperature detection 11 grain temperature

111 Average grain temperature, average grain temperature 112 highest grain temperature

113 Minimum grain temperature

114 Upper grain temperature 115 middle grain temperature 116 lower grain temperature

117 Temperature gradient temperature difference per metre thick grain layer

118 Maximum temperature difference, maximum grain temperature and minimum grain temperature difference

119 Other grain temperature a 12 warehouse temperature

13 Atmospheric temperature

2 humidity detection

23 Relative humidity in the grain pile

3 Grain quality testing

39 Other quality indicators a

4 Gas detection refers to the main gas components in the grain pile

41 Oxygen content

411 hypoxia (< 2%)

412 hypoxia (>2% and < 12%)

Table 1 (continued)

Code name description

413 Normal oxygen content (21%)