

ICS 67.040
CCS X 04



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

GB/T 10362-2008

Replacing GB/T 10362-1989

**Inspection of grain and oils -- Determination of moisture
content of maize**

粮油检验 玉米水分测定

(English Translation)

Issued on: November 4, 2008

Implemented on: January 20, 2009

Issued by: Standardization Administration of China

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 4 Apparatus and appliances
- 5 Sample Preparation
- 6 Moisture
- 6.2 Drying method twice

Foreword

This revised standard adopts ISO 6540. 1980 "Determination of the moisture content of maize (crushed and granulated specimen sample)" (in English).

This standard and ISO 6540. 1980 main technical differences are as follows.

- Modify the sample preparation requirements;
- Modify the normative references;
- International standard two parts accordingly merger;
- Delete international standards Figure 1 and Appendix 2, Figure 3;
- Removed some help content and test reports.

For ease of use, the standard ISO 6540. 1980 the following modifications.

- "This International Standard" be replaced by "this standard";
- With a decimal point instead of a comma as the decimal point, ",";
- Modify the standard name;
- Remove the introduction of international standards, and directory foreword.

This standard replaces GB/T 10362-1989 "Corn determination of moisture content." this standard compared with GB/T 10362-1989 main changes are as follows.

- Increasing the normative references;
- Modify the sample size requirements.

Appendix A of this standard is a normative appendix.

The standard proposed by the National Food Authority.

This standard by the National Standardization Technical Committee OILS.

This standard was drafted. Henan University, Beijing foodstuff and Inspection, National Food Quality Monitoring Center of Henan Province, Liaoning Province, State Forest Branch.

1 Scope

This standard specifies the crushed corn, whole corn moisture determination principle, apparatus and appliances, procedures, and results of calculation and determination of moisture FIG.

This standard applies to grinding corn, whole grain corn moisture content determination.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 5491 grain and oilseeds testing for sampling, and sample method Principle 3 Under atmospheric pressure, the mass of corn 130 °C ~ 133 °C drying loss.

4 Apparatus and appliances

4.1

Balance. dividing the value of 0.01g, 0.001g.

4.2

mill. mill bore material non-absorbent, airtight, no dead ends, easy to clean, can be rapidly and uniformly crushed 30g sample, to achieve the desired particle size Seeking, no heat when crushed.

4.3

metal dish or glass dish. no cover, make 100g Whole single sample distributed in the bottom of the dish.

4.4

metal box or glass dish. with closures; for whole grain samples, diameter 55mm ~ 60mm, height 35mm ~ 40mm; for powder Sample bake bottom of the box area requirement per square centimeter of the sample amount is not more than 0.3g.

4.5

thermostatic oven. Yes blowing means, the temperature was maintained at 60 °C ~ 80 °C.

4.6

thermostatic oven. the temperature was maintained at 130 °C ~ 133 °C.

4.7

dryer. fitted with an efficient desiccant.

5 Sample Preparation

GB 5491 for sampling carried out according to 5.1, and sample.

5.2

When the sample size achieved by 1.5mm diameter round hole screen a sample of not less than 90%, by 6.1 and 6.2 operation.

5.3

When the sample moisture content of 9% to 15%, first with a small sample cleaning mill (4.2), discard the crushed material, and then take 30g sample Crushed to 1.5mm diameter hole through the sieve of less than 90%, the combined sieve, sieve, mixed evenly into a sealed container in the back.

5.4

When the sample water is less than 9%, or more than 15%, the press operation 6.2.1, 5.1.3 then pulverized.

6 Moisture

6.1

a drying method

Sample moisture content 9% to 15%, using a drying method, according to the operation 6.2.2.

6.2 Drying method twice

When the sample moisture content greater than 15%, or less than 9%, using two drying methods.