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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GB 5461-2000

Edible Salt

[Translator note: The changed contents of Corrigendum and Amendments are highlighted in BLUE]

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Foreword

This Standard is a revision to GB 5461-1992 “Edible Salt”.

This Standard equivalently adopts TOCT 13830-1984 “Edible Salt”. In this Standard, calculation of whiteness and chemical index according to wet basis percentage is added; and the limits for hygiene index are specified according to the raw material, production process and product quality of edible salt of our country.

Through the revision, the content for Class 3 products of ordinary salt, pulverized salt and solar salt is deleted from this Standard; and the index for potassium iodate, grain size, whiteness and part of the chemical composition parameters are adjusted.

This Standard replaces GB/T 5461-1992, from the date of implementation.

This Standard was proposed by the National Light Industry Bureau.

This Standard shall be interpreted and managed by the Nation Ocean and Lake Salt Standardization Center.

Drafting organizations of this Standard: National Ocean and Lake Salt Standardization Center, and National Well Mine Salt Standardization Center.

Main drafters of this Standard: Liu Zhida, Chen Sujuan, Zhang Nengjun, Wang Zhibin, and Fu Shuying.

This Standard was issued for the first time in October, 1985; revised for the first time in June, 1992; and revised for the second time in December, 1999.

Edible Salt

1 Scope

This Standard specifies the technical requirements, test method, inspection rules, package, marking, and transportation and storage requirements of edible salt.

This Standard applies for edible refined salt, pulverized washing salt and solar salt.

2 Normative References

The articles contained in the following documents have become the articles of this Standard after they are cited herein. For the dated documents so cited, all the modification list (excluding correction) or revised editions made thereafter shall not be applicable to this Standard, but all parties who have concluded agreements on the basis of this Standard are encouraged to study the possibility to implement the latest version of these documents. For the undated documents so cited, the latest version shall be applicable to this Standard.

GB/T 601-1988 Chemical Reagent-Preparation of standard solution for titration analysis (volumetric analysis)

GB/T 602-1988 Chemical Reagent-Preparation of standard solution of contamination test

GB/T 603-1988 Chemical Reagent-Preparation of all pharmaceuticals and products used in the test method

GB 6682-1992 Quality and test method of water used in analysis laboratory

GB 7718-1994 General standard for labeling of foods

GB/T 8618-1998 The sampling methods of the main products in the salt industry

GB/T 13025.1-1991 General test method in salt industry - Determination of grain size

GB/T 13025.2-1991 General test method in salt industry - Determination of whiteness

GB/T 13025.3-1991 General test method in salt industry - Determination of moisture

GB/T 13025.4-1991 General test method in salt industry - Determination of insoluble matter

GB/T 13025.5-1991 General test method in salt industry - Determination of chloride ion

GB/T 13025.6-1991 General test method in salt industry - Determination of calcium and magnesium ion

Chloride ion Cl ⁻	(4) Calcium chloride	(5) Magnesium chloride	(6) Sodium chloride
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During the calculation according to the sequence numbers, if certain compound can not be formed owing to absence of the anion or the cation, then the calculation can be conducted with the next sequence number to fill-up the vacancies in the proper order. The calculation result shall be counted to the third decimal point; and take the second decimal point.

When the percentage sum of inspected compounds and insoluble matters, moisture (the value determined by loss of weight during baking plus the residual crystal water; or determination value during burning at 600°C) is 99.5%-100.40%, the analysis data is deemed as valid.

For residual crystal water after baking of the edible salt at 140°C, the calculation is made based on that 1/2 crystal water is contained in calcium sulfate; 1 crystal water is contained in magnesium sulfate; 2 crystal water is contained in magnesium chloride; and 2 crystal water is contained in calcium chloride. For residual crystal water after baking of the edible salt at 110°C, the calculation is made based on that 1/2 crystal water is contained in calcium sulfate; 2 crystal water is contained in magnesium sulfate; 4 crystal water is contained in magnesium chloride; and 2 crystal water is contained in calcium chloride.

6 Inspection Rules

6.1 Group-batch

The products that are manufactured with the same-process; of the same-grade; and delivered in same-time are deemed a group-batch.

6.2 Before shipment of edible salt products, the inspection department of the production plant (site) or the sales department shall carry out inspection lot-by-lot according to this Standard. When the inspection is qualified, the quality certificate shall be attached inside (outside) of the package; then the product can be dispatched.

6.3 Sampling method and quantity

Conduct according to requirements of GB/T 8618.

6.4 The quality of edible salt product shall be based on the quality inspected upon delivery. When there is dispute on product quality between the supplier and the purchaser, it shall be entrusted to the arbitration organization by both parties for inspection and judgment according to requirements of this Standard.

6.5 The quality deviation between the net mass of the edible salt product package and the indicated mass shall conform to the requirements of the "Prepackaged goods metrological supervision regulations" issued by the country.

6.6 If one of the indices in the inspection results (or two indices of grain size, whiteness and water-soluble matter) can not conform to requirements of this Standard, then the standby-samples that are same-lot as the sampled products shall be conducted for non-conformance items. If the retest still can not satisfy the requirements for the lowest grade of that category-product, then the products of this lot shall be deemed as unqualified.

GB 5461 Corrigendum

In Chapter 2, the quoted standards GB/T 13025.7-1991, GB/T 13025.11-1991, GB/T 13025.12-1991 and GB/T 13025.13-1991 shall be respectively changed to: GB/T 13025.7-1999, GB/T 13025.11-1994, GB/T 13025.12-1994 and GB/T 13025.13-1994.

GB 5461-2000 Amendment 1

This Amendment was approved by State Quality Technical Supervision Bureau in March 21, 2001. It shall be implemented from June 1, 2001.

In Table 1 of Technical Requirements:

- Add "2)" for item Iodine (in I).

- Add the following contents at bottom-row:

- 2) For not-iodized salt that is specially supplied to high-iodine area residents and people who are not suitable to eat iodized salt, the iodine content shall be less than 5 mg/kg; the packaging shall have the corresponding marking; other technical indices remain the same.
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GB 5461-2000 Amendment 2

This Amendment was approved by State Standardization Committee in July 21, 2004. It shall be implemented from the issuing date.

1. Chapter 2 Reference Standard

Add: GB 2721 Hygienic standard for food grade salt

GB 14880 Hygienic standard for the use of nutritional fortification substances in foods

Delete: GB/T 13025.11-1994 General test method in salt industry - Determination of fluorine

2. Hygienic indices

"Lead (in Pb) ≤ 1.0 ; Arsenic (in As) ≤ 0.5 ; Barium (in Ba)¹⁾ ≤ 5.0 ; Fluorine (in F) ≤ 15.0 " is changed to: According to GB 2721.

3. Potassium iodate

"Iodine (in I), 35±15 (20-50)" is changed to "Iodine (in I), According to GB 14880".

4. Clause 5.13 shall be deleted.

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