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

GB/T 13025.4-2012

Replacing GB/T 13025.4-1991

**General test method in salt industry - Determination of
insoluble matter**

制盐工业通用试验方法 水不溶物的测定

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Foreword

This section of the standard method of series universal testing in salt industry, which is currently divided into the following series of standards section 13 and, if necessary, other test Standard test method will complement the development of the follow-up work.

- GB/T 13025.1 General test method in salt industry - Determination of particle size;
- GB/T 13025.2 General test method in salt industry - Determination of whiteness;
- GB/T 13025.3 General test method in salt industry - Determination of moisture content;
- GB/T 13025.4 General test method in salt industry - Determination of insoluble matter;
- GB/T 13025.5 General test method in salt industry Determination of chloride ion;
- GB/T 13025.6 General test method in salt industry - Determination of calcium and magnesium;
- GB/T 13025.7 General test method in salt industry - Determination of iodine;
- GB/T 13025.8 General test method in salt industry - Determination of sulfate;
- GB/T 13025.9 General test method in salt industry - Determination of lead;
- GB/T 13025.10 General test method in salt industry - Determination of ferrous cyanide;
- GB/T 13025.11 General test method in salt industry - Determination of Fluoride;
- GB/T 13025.12 General test method in salt industry - Determination of barium;
- GB/T 13025.13 General test method in salt industry - Determination of arsenic. This is Part 4 GB/T 13025 in. This section based on GB/T 1.1-2009 of rules for the preparation. This Part replaces GB/T 13025.4-1991 "General test method in salt industry - Determination of insoluble matter," this part of the series Series modifications. This part made by the China Light Industry Federation, the National Salt Industry Standardization

Technical Committee centralized. This section drafted by: National Maritime Center Salt Lake standardization. The main drafters of this section. Tong Yun Kun, Huo Jun Fei. This section previously issued as follows:

1 Scope

GB/T 13025.4-2012 is the Chinese national standard on general test method in salt industry - determination of insoluble matter, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 29 June 2012 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2012. Classification: ICS 71.060.50, CCS X35. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the method for determination of the product salt water insoluble salts and chemical products. This standard applies to the determination of salt products and salt chemical products in water-insoluble matter.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 6682-2008 analytical laboratory use specifications and test methods Principle

3 Samples were dissolved in water, glass crucible after filtration, the residue was dried and weighed, measured insoluble content.

4 Reagents

Unless otherwise indicated in the analysis using only recognized as analytical reagents and GB/T 6682-2008 specified tertiary water.

5 Instruments

5.1 Ovens. to adjust the temperature of $110\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$.

5.2 No. 3 glass crucible. Step

6 Analysis Weigh 10g crushed to 2mm or less homogeneous samples, weighing accuracy 0.001g, placed in 400mL beaker, add 150mL water, Stirring constantly heated to near boiling the sample is completely dissolved, after 10min standing, with 110 °C was dried and weighed pad quantitative filter paper Glass crucible by suction, pouring the solution, and the insolubles washed 2 to 3 times, and then the insolubles were all transferred to a crucible, and the filtrate was washed until no chloride ion Promoter (test with silver nitrate solution). Rinse the outer wall of the crucible, the crucible was placed in a thermostatic oven, the temperature was raised to 110 deg.] C, drying was continued 1h, remove, Desiccator, cooled to room temperature and weighed. After each drying 30min weighing until the difference between the two depends on weighing no more than 0.0002g To constant weight.

7 Results Calculation

Water-insoluble content in the sample to the mass fraction ω and its value as a percentage (%) expressed by the formula (1). $\omega = \frac{m_1 - m_2}{m} \times 100\%$ (1)