

ICS 77.150.99

CCS H64



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

GB/T 11075-2013

Replacing GB/T 11075-2003

Lithium carbonate

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Issued on: September 6, 2013

Implemented on: May 1, 2014

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

This Standard is drafted in accordance with the rules given in GB/T 1.1-2009. This Standard replaces GB/T 11075-2003 "Lithium carbonate". As compared with GB/T 11075-2003, the main technical changes of this Standard are as follows: - ADD lithium carbonate produced from brine as raw material to the scope of application; - Product's water content is separated from the previous chemical composition and becomes a separate inspection item; - Reduce the content of impurity elements such as Na, Fe, etc. and water content in the product; - Increase the content of chloride ion impurity element in the product; - The lot grouping weight is changed from the previous net weight 1 t ~ 18 t each lot to the net weight of not more than 20 t each lot of products; - The net weight of each bag is changed from 25 kg±25 g to 20 kg ~ 1000 kg. This Standard shall be under the jurisdiction of National Technical Committee 243 on Non-ferrous Metal of Standardization Administration of China (SAC/TC 243). Drafting organizations of this Standard. Xinjiang Haoxin Lithium Salts Development Co., Ltd., Tianqi Lithium Corporation, General Lithium (Haimen) Corporation, Ganfeng Lithium Co., Ltd., Baiyin Zhabuye Lithium Industry Co., Ltd., Sichuan Ni&Co Guorun New Materials Co., Ltd., Shaanxi Guoneng Lithium Industry Co., Ltd.. Main drafters of this Standard. Chen Yuedi, Yan Chunli, Jin Peng, Li Nanping, Xie Shaozhong, Xu Zhongji, Zhang Youjun, Gong Zhixing, Lin Fangxiang. The previous editions of the standard replaced by this Standard were released as follows: - GB/T 11075-1989, GB/T 11075-2003. Lithium carbonate

1 Scope

GB/T 11075-2013 is the Chinese national standard on lithium carbonate, in the field of

metallurgy. 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 6 September 2013 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 May 2014. Classification: ICS 77.150.99, CCS H64. 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 requirements, test methods, inspection rules, marking, packaging, transportation, storage, quality certificate, and contract (or order form) content of lithium carbonate. This Standard applies to lithium carbonate produced from lithium ore or brine as raw material.

2 Normative references

The following documents are indispensable for the application of this document. For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition (including all the amendments) are applicable to this document.

GB/T 191 Packaging - Pictorial Marking for Handling of Goods

GB/T 6284 Chemical products for industrial use - General method for determination of water content - The loss of mass on drying method

GB/T 6678-2003 General Principles for Sampling Chemical Products

GB/T 11064 (all parts) Methods for chemical analysis of lithium carbonate, lithium hydroxide monohydrate and lithium chloride

3 Requirements

3.1 Product classification The product, according to the chemical composition, is classified into 3 designations. $\text{Li}_2\text{CO}_3\text{-0}$, $\text{Li}_2\text{CO}_3\text{-1}$, $\text{Li}_2\text{CO}_3\text{-2}$.

3.2 Chemical composition The chemical composition of product shall comply with the requirements of Table 1.

3.3 Water content The water content of product shall meet the requirements of Table 2.

4 Test methods

4.1 The inspection of chemical composition of product shall be carried out in accordance

with the provisions of GB/T 11064.

4.3 The appearance quality of product shall be visually inspected.

5.1 Inspection and acceptance

5.1.1 The product shall be inspected by the supplier, to ensure that the product complies with the requirements of this Standard (or the order contract). The product quality certificate shall be filled in.

5.1.2 The purchaser shall inspect the products received in accordance with the provisions of this Standard (or the order contract).

5.2 Batching Lithium carbonate products shall, in lots, be submitted for acceptance. Each lot shall consist of the same designation mixture. The net weight of each lot of products shall be no more than 20 t.

5.3 Inspection items Each lot of products shall be inspected for chemical composition, water content, and appearance quality. The quality conformity inspection items for each lot of products shall comply with the requirements of Table 3.

5.4 Sampling

5.4.1 Sampling quantity Sampling shall be carried out according to the provisions of 7.6 of GB/T 6678- 2003.

5.4.2 Sampling method USE a stainless steel tube or a rigid polyvinyl chloride sampler. The sampling tube, along the center of bag, is inserted into the bag 2/

3.The sample taken is mixed well and divided by a quarter method into about 200 g.

5.5 Judgement of inspection results

5.5.1 If the result of chemical composition analysis of product is unqualified, the sample is doubled from the same lot of products, for re-inspection of the unqualified item. If there is still one unqualified result, the lot is judged as unqualified.

5.5.3 If the appearance quality of product is unqualified, the sample is doubled from the same lot of products, for re-inspection of the unqualified item. If there is still one unqualified result, the lot is judged as unqualified.

6 Marking, packaging, transportation, storage, and

quality certificate

6.1 Marking The product's packaging bag shall be marked with.

6.2 Packaging The product is packaged using a plastic bag lined and a plastic woven bag

outside. The net weight of each bag is 20 kg ~ 1000 kg.

6.3 Transportation When handling the product, it shall prevent the packaging bag from being damaged and pay attention to moisture.

6.4 Storage The product shall be stored in a dry, acid corrosion atmosphere-free place.

6.5 Quality certificate Each lot of products shall be accompanied by a quality certificate stating.

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