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GB/T 11075-2013

Replacing GB/T 11075-2003

Lithium carbonate

碳酸锂

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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 $\pm$ 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

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.

5.5.2 If the product's water content is unqualified, the sample is doubled from the same lot of products for re-inspection. If it is still unqualified, the lot will be 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:

- a) Product name;
- b) Executive standard;
- c) Main content;
- d) Lot number;
- e) Net weight and gross weight;
- f) Supplier name;
- g) "Keep dry" marking in GB/T 191.

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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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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