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NON-FERROUS METAL INDUSTRY STANDARD
OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 77.120.99

H 64

YS/T 1241-2018

Lithium Sulfate

硫酸锂

Issued on: April 30, 2018

Implemented on: September 1, 2018

**Issued by: Ministry of Industry and Information Technology of the
People's Republic of China**

Table of Contents

Foreword	3
1 Scope	4
2 Normative References	4
3 Requirements	4
4 Test Methods	5
5 Inspection Rules	5
6 Marking, Packaging, Transportation, Storage and Quality Certificate	6
7 Order Form (or contract) Content	7

Lithium Sulfate

1 Scope

This Standard specifies the requirements, test methods, inspection rules, marking, packaging, transportation, storage, quality certificate and order form (or contract) content.

This Standard is applicable to solid by-product lithium sulfate, which is generated during the preparation of lithium iron phosphate through wet process.

2 Normative References

The following documents are indispensable to the application of this Standard. In terms of references with a specified date, only versions with a specified date are applicable to this Standard. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this Standard.

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

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

3 Requirements

3.1 Chemical Composition

Lithium sulfate' chemical composition shall comply with the stipulations in Table 1.

Table 1 -- Chemical Composition

Li ₂ SO ₄ •H ₂ O content, not less than	(mass fraction) %								
	Impurity Content, not more than								
	Na	K	Ca	Mg	Fe	PO ₄ ³⁻	Cl ⁻	Pb	Hydrochloric Acid Insoluble Matter
97.0	0.03	0.01	0.02	0.005	0.001	1.5	0.03	0.002	0.05
NOTE: Li ₂ SO ₄ •H ₂ O content shall be obtained through the calculation of Li content.									

3.2 Appearance Quality

Products shall be white crystalline particles and have certain fluidity. There shall be no visible foreign inclusions.

Along the center of a sack, insert the sampling tube into 2/3 area of the sack. After mixing up the sample, use quartering method to divide the sample to around 200 g.

5.4.2 Sampling size

Sampling size shall comply with the stipulations in 7.6 in GB/T 6678-2003.

5.5 Determination of Inspection Result

5.5.1 When the result of chemical composition analysis is disqualified, take a doubled size of samples from the same batch of products to conduct re-inspection of the disqualified items. If the samples still fail in one of the items in the re-inspection result, then, this batch of products shall be determined as disqualified.

5.5.2 When the samples are disqualified in appearance quality inspection, then, this batch of products shall be determined as disqualified.

6 Marking, Packaging, Transportation, Storage and Quality Certificate

6.1 Marking

On product packaging, the following shall be indicated:

- a) Product's name;
- b) Serial number of this Standard;
- c) Main content;
- d) Batch number;
- e) Net weight;
- f) Supply-side's name;
- g) Place of production;
- h) The marking of "keep away from the rain" in GB/T 191.

6.2 Packaging

Products shall adopt lined with plastic film bag. On the outside, products shall be covered with double-layer packaging of plastic woven bag, or, be packed through plastic coated bag. The internal bag shall be tied or heat-sealed; the external bag shall be firmly sealed.

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