

Translated English of Chinese Standard: YST661-2016

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**YS**

NONFERROUS METAL INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 77.150.99

H 64

**YS/T 661-2016**

Replacing YS/T 661-2007

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**Battery grade lithium fluoride**

**电池级氟化锂**

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# Battery grade lithium fluoride

## 1 Scope

This standard specifies the requirements, test methods, inspection rules and markings, packaging, transportation and storage, quality certificate, and contract (or order form) content of battery-grade lithium fluoride.

This standard applies to the battery-grade lithium fluoride produced from lithium hydroxide monohydrate and lithium carbonate. The products are mainly used to produce battery-grade lithium hexafluorophosphate.

## 2 Normative references

The following documents are essential for the application of this document. For the dated referenced documents, only the versions with the indicated dates are applicable to this document; for the undated referenced documents, only the latest version (including all the amendments) is applicable to this document.

GB 4387 Safety regulation for railway and road transportation in plants of industrial enterprises

GB/T 6678-2003 General principles for sampling chemical products

GB/T 22660(all parts) Chemical analysis methods of lithium fluoride

JT 617 Regulations concerning road transportation of dangerous goods

JT 618 Rules for transportation, loading and unloading of dangerous goods by automobile

## 3 Requirements

### 3.1 Chemical composition

The chemical composition of battery-grade lithium fluoride shall comply with Table 1.

## **certificates**

### **6.1 Marking**

The following content shall be marked on each packaging bag of the products:

- a) Company name and trademark;
- b) Product name;
- c) Product gross weight;
- d) Product net weight;
- e) Date of packaging;
- f) Product batch number.

### **6.2 Packaging**

The products are packed in double-layer packaging with an outer layer of plastic woven bag and a lining of plastic film bag, or in plastic-film-laminated bags. The inner bag is buckled or heat-sealed, and the outer bag is firmly sealed. The net weight of each bag is in accordance with customer requirements.

### **6.3 Transportation and storage**

**6.3.1** When the product is transported, rainproof transport tools shall be used to avoid contact with acid. The packaging bag shall be prevented from being damaged during transportation, and attention shall be paid to moisture-proofing. Automobile transportation shall be carried out in accordance with the regulations of JT 617, JT 618, and GB 4387.

**6.3.2** Products shall be stored in a dry, acid-free, and alkali-free atmosphere. They shall not be stacked in the open and protected from moisture.

**6.3.3** The shelf life of the product is one year from the date of production, under the required packaging conditions and storage conditions.

### **6.4 Quality certificate**

Each batch of products shall be accompanied by a product quality certificate indicating the following content:

- a) Supplier's name, address, telephone number, and fax number;
- b) Product name;

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