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## **Magnesium Lithium Alloys Ingots**

镁锂合金铸锭

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# Magnesium Lithium Alloys Ingots

## 1 Scope

This Standard specifies the requirements, test methods, inspection rules, marking, package, transportation, storage, quality certificate and ordering list (or content) of the magnesium lithium alloys ingots.

This Standard is applicable to the magnesium lithium alloys ingots (hereinafter referred to as ingots).

## 2 Normative References

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

GB/T 4297 Inspection Method for Macrostructure of Wrought Magnesium Alloy Products

GB/T 5153 Designation and Composition of Wrought Magnesium and Magnesium Alloys

GB/T 10125 Corrosion Tests in Artificial Atmospheres - Salt Spray Tests

GB/T 13748 (all parts) Chemical Analysis Methods of Magnesium and Magnesium Alloys

GB/T 32792 Packaging, Marking, Transportation and Storage of Magnesium Alloy Processing Products

YS/T 627 Wrought Magnesium and Magnesium Alloys Rotundity Ingots

YS/T 695 Wrought Magnesium and Magnesium Alloys Rectangle Ingots

## 3 Requirements

### 3.1 Product classification

## 4 Test Methods

### 4.1 Chemical compositions

The arbitration analysis of the ingot chemical compositions shall be carried out according to the method specified in GB/T 13748. Where GB/T 13748 does not provide the provisions, it shall be performed as per the method specified by the supplier and the purchaser.

### 4.2 Size deviation

The size deviation of the ingot shall be carried out as per the method specified in YS/T 627 or YS/T 695.

### 4.3 Macrostructure

The macrostructure test of the ingot shall be carried out as per the method specified in GB/T 4297.

### 4.4 Appearance quality

Generally, the appearance quality shall be visually examined. If necessary, use the grinding method to determine the depth of the surface defects.

### 4.5 Corrosion performance

The salt spray corrosion performance shall be carried out as per the method specified in GB/T 10125; the test piece shall be degreased and de-rusted before the test.

### 4.6 Others

Other requirements are determined through the negotiation between the supplier and the purchaser.

## 5 Inspection Rules

### 5.1 Inspection and acceptance

**5.1.1** The product shall be inspected by the supplier's technical (or quality supervision) department to ensure that the product quality conform to the provisions of this Standard and purchasing list (or contract); and fill in the quality certificate.

**5.1.2** The purchaser shall inspect the received products according to the provisions of this Standard. When the inspection result is inconsistent with the provisions of this Standard and ordering list (or contract), it shall be submitted to the supplier in the

batch is judged unqualified.

**5.5.2** If the size deviation of any ingot is unqualified, then such ingot is judged to be unqualified.

**5.5.3** When there are cracks and flux slag in the macrostructure test result, then such batch is judged to be unqualified; the judgment of other inclusions shall be determined through the negotiation between the supplier and the purchaser.

**5.5.4** When the appearance quality is unqualified, then judge the single ingot is unqualified; but the supplier is allowed to reprocess to the qualified and deliver then. If the ingot is still unqualified after processing, then judge the single ingot is unqualified.

**5.5.5** When the corrosion performance is unqualified, judge such batch unqualified.

## **6 Marking, Package, Transportation, Storage and Quality Certificate**

### **6.1 Marking**

**6.1.1** The end face of each ingot shall be marked with grade, melting time, sequence number and state.

**6.1.2** Each bundle of ingots shall be provided with two labels indicating:

- a) Seal from the supplier's technical supervision department;
- b) Product name;
- c) Grade;
- d) State;
- e) Batch number.

### **6.2 Package, transportation and storage**

The packaging method of the ingots shall be agreed by the supplier and the purchaser; and indicated in the contract. The transportation and storage shall be as stipulate din GB/T 32792.

### **6.3 Quality certificate**

Each batch of ingots shall have a quality certificate meeting the requirements of this Standard, indicating:

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