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PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国有色金属行业标准

YS/T 489-2005

Grain-refining aluminium ingots 结晶铝锭

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Foreword

In this Standard, Annex A, Annex B and Annex C are informative annexes.

The Standard is proposed by and under jurisdiction of the National Nonferrous Metals Standardization Technical Committee.

The responsible unit for drafting this Standard is: Zhengzhou University

The Standard is drafted by Dengdian Group Aluminum alloy Co., Ltd., Northeast Light Alloy Co., Ltd., Aluminum Corporation of China Limited, Guizhou Branch and Jiaozuo Wanfang Aluminum Co., Ltd.

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National Nonferrous Metals Standardization Technical Committee is responsible for the interpretation of this Standard.

Grain-refining aluminum ingots

1 Scope

This Standard specifies the requirements, test methods, inspection rules, marking, packing, transport, storage and quality control of the grain-refining aluminum ingots.

This Standard applies to the grain-refining aluminum ingots produced by aluminum oxide - titanium oxide - cryolite molten salt electrolysis eutectoid method

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 1196 Unalloyed aluminium ingots for remelting

GB/T 1706 Titanium dioxide pigments

GB/T 3246 (All parts) Inspection method for structure of wrought aluminum and aluminum alloy products

GB/T 8170 Rules of rounding off for numerical values & expression and judgement of limiting values

YS/T 298 High titanium slag

YS/T 299 Artificial rutile

YS/T 322 Specification for aluminium alloys webster hardness

YS/T 352 Natural rutile concentration

3 Terms

Gram-refining aluminum ingots

The aluminum ingot produced in electrolytic process by adding the titanium oxide into the electrolyte is called grain-refining aluminum ingots. Among which the mass fraction of titanium is not more than 0.20%; the average grain diameter of the grain is not more than 350µm via the grain refinement capacity test.

4 Requirements

4.1 Product category

Grain-refining aluminum ingots are divided into four grades according to the chemical composition: XA199.70A, XA199.70A-2, XA199.70A-3, XA199.70A-4.

4.2 Chemical composition

The chemical composition of the grain-refining aluminum ingots shall comply with the provisions of Table 1.

4.3 Appearance

Appearance of the grain-refining aluminum ingots shall be conducted according to the provisions of GB/T 1196.

4.4 Ingot weight and ingot mold

Ingot weight and ingot mold of grain-refining aluminum ingot shall be conducted according to the provisions of GB/T 1196.



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