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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 590-2012

Replace YS/T 590-2006

**Wrought aluminium and aluminium alloy
rectangle ingots**

变形铝及铝合金扁铸锭

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Foreword

This Standard is drafted according to the rules provided in GB/T 1.1-2009.

This Standard replaces YS/T 590-2006 *Wrought Aluminium and Aluminium Alloy Rectangle Ingots*.

Compared with YS/T 590—2006, the changes of the main technical contents of this Standard are as follows:

- The width range has been revised to $\leq 2,930$ mm, length range has been revised to $\leq 10,000$ mm;
- The width deviation, length deviation has been strict, and the thickness deviation has been revised;
- Added concave and convex degrees deviation and the calculation methods have been provided;
- Curvature index has been strict;
- Added diagonal difference provisions;
- Requirements for the depth of the saw cutting marks has been strict;
- Added provisions for rectangle ingots milling;
- Control level of macrostructure the grain size has been strict and adjusted the control level of hypoploidy porosity.
- Add the appearance quality requirements of the milling rectangle ingots; strictly controlled the depth requirements of non-milling rectangle ingots layers (cold insulation) and segregation tumors.
- Detailed the control level of the melt hydrogen content, and adjusted the control requirements of the hydrogen content from the informative Annex to the standard text.
- Completed the informative Annex.

This Standard is under jurisdiction of the National Non-ferrous Metals Standardization Technical Committee (SAC/TC 243).

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The issuance condition of previous version of the standard replaced by this Standard is as follows:

—YS/T 590—2006.

Wrought aluminium and aluminium alloy rectangle ingots

1 Scope

This Standard specifies the requirements, test methods and inspection rules for wrought aluminium and the aluminum alloy rectangle ingots produced by semi-continuous casting process, as well as the marking, packing, transportation, storage and quality certificate and purchasing order (or contract) content.

This Standard applies to wrought aluminium and aluminum alloy rectangle ingots used for rolling (Hereinafter referred to as a rectangle ingot).

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 (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

GB/T 1196 Unalloyed aluminium ingots for remelting

GB/T 3190 Wrought aluminium and aluminium alloy—Chemical composition

GB/T 3199 Wrought aluminium and aluminium alloy products-Packing marking transporting and storing

GB/T 3246.1 Inspection method for structure of wrought aluminum and aluminum alloy products Part 1: Inspection method for microstructure

GB/T 3246.2 Inspection method for structure of wrought aluminum and aluminum alloy products - Part 2: Inspection method for macrostructure

GB/T 7999 Optical emission spectrometric analysis method of aluminum and aluminum alloys

GB/T 8005.1 Aluminium and aluminium alloys-Terms and definitions - Part 1: Product and method of processing and treatment

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

GB/T 17432 Methods for sampling for analyzing the chemical composition of wrought

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