

ICS 77.150.10

H60



**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 3190-2008

**Wrought aluminium and aluminium alloy—Chemical
composition**

变形铝及铝合金化学成分

(ISO 209: 2007 aluminium and aluminium alloy—Chemical composition, MOD)

Issued on June 17, 2008

Implemented on December 01, 2008

Issued by General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China

Standardization Administration of the People's Republic of China

Foreword

The revision of this standard adopts ISO209: 2007 "Wrought Aluminium and Aluminium Alloy - Chemical Composition" (English edition), and this standard is redrafted on the base of ISO209: 2007. For comparing the international standard and this standard, the list of corresponding chapters and sections of them is detailed as Annex B (Informative).

The revision is done while adopting the international standard. the technical differences are marked with perpendicular single line on the page margin of involved articles or items, and they are as follows:

——Cancel the designation and composition of aluminium and aluminium alloy that haven't be produced in China ever;

——Cancel the table of comparison between new and old designations in the ISO standard;

——Add four-letter designation and composition special in China;

——Add the requirements for special control of toxic and harmful elements;

——Add the requirements on composition analysis and sampling.

This standard replaces GB/T3190-1996 "Wrought Aluminium and Aluminium Alloy - Chemical Composition". Compared with GB/T3190-1996, the main revisions in this standard are as:

——Add designations and compositions of 130 aluminums and aluminium alloys, and divided the Table of chemical composition into two parts (two tables): Table 1 is applicable to international designations, covering 159 designations; Table 2 is applicable to four-letter designations, covering 114 designations;

——Add the requirements for special control of toxic and harmful elements;

——Add the denotation (method) of limit value;

——Revise "Table of Comparison between New and Old Designations"

Annex A and Annex B of this standard are informative.

This standard is proposed by China Non-ferrous Metals Industry Federation.

This standard is under the jurisdiction of the National Standardization Technical Committee of Non-ferrous Metal.

Main drafting organizations: Northeast Light Alloy Co., Ltd., China Non-ferrous Metals Industry Standard Measurement Quality Institute

Participating organization: Guangdong Jianmei Aluminium Profile Factory Co., Ltd., Fujian Nanping Aluminium Co., Ltd., Gujian Minfa Aluminium Industry Co., Ltd., Southwest Aluminum (Group) Co, Ltd., Guangdong Xingfa Aluminium Industry Co., Ltd.

Chief Drafting Staffs: Wu Xinfeng, Lu Xinyu, Guo Rui, Liu Zhengchao, Ge Lixin, Wang Jianguo, Wang Guojun, Zhang Wanjin, Wang Lijun, Cao Yongliang, Li Chengli, Zhou Yaohui

All previously replaced editions hereof are as:

GB/T 3190-1982, GB/T 319-1996.

Wrought Aluminium and Aluminium Alloy - Chemical Composition

1 Scope

This standard specifies chemical composition of wrought aluminium and aluminium alloy. This standard is applicable to aluminium and aluminium alloy products (plate, strip, foil, pipe, stick, section, line and forging) produced with press working, and cast ingot and blanks used for them.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, the parties whose enter into agreement according to these specifications are encouraged to research whether the latest editions of these labels are applied or not. For undated references, the latest edition of the normative document is applicable to these specifications.

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

GB/T 8170 Rules for rounding off of numerical values

GB/T 16474 Wrought aluminium and aluminium alloy — Designation system

GB/T 20975 Chemical analysis methods of aluminium and aluminium alloys (all parts)

3 Requirements

3.1 Chemical composition

3.1.1 The chemical compositions of wrought aluminiums and aluminium alloys shall meet the requirements of Table 1 and Table 2. The column "others" indicates the metallic element not listed in the table. The content in the table, as single numerical value, is the minimal limit for aluminium; it is maximal limit for other elements. the denotation of limit value is as:

Limit Value of the total ferrum and silicon with the designation 1XXX 0.XX or 1.XX;

Other Limit Values:

<0.001%	0.000X;
0.001%~<0.01%	0.00X;
0.01%~<0.10%	0.0X;
0.10%~0.55%	0.XX;
>0.55%	0.X, X.X, XX.X, etc.

3.1.2 $\omega(\text{Cd}+\text{Hg}+\text{Pb}+\text{Cr6+})\leq 0.01\%$, $\omega(\text{AS})\leq 0.01\%$ shall be controlled for aluminium and aluminium alloy materials Used in food service industry; $\omega(\text{Pb})\leq 0.1\%$, $\omega(\text{Hg})\leq 0.1\%$, $\omega(\text{Cd})\leq 0.01\%$, $W(\text{Cr6+})\leq 0.1\%$ Shall be controlled for the aluminium and aluminium alloy materials used in electric appliance and equipment industry.

3.2 Sampling

3.2.1 Manufacturing plant shall sample chemical components from molten mass for analysis by molten time; for continuous casting, a sample shall be selected once at least per shift.

3.2.2 The using plant shall be sample chemical component from processed products for analysis.



北京文心雕语翻译有限公司
Beijing Lancarver Translation Inc.

完整版本请在线下单/Order Checks Online for Full version

联系我们/or Contact:

TEL: 400-678-1309

QQ: 19315219 | Skype: Lancarver

Email : info@lancarver.com

<http://www.lancarver.com>

线下付款方式：

I. 对公账户：

单位名称：北京文心雕语翻译有限公司

开 户 行：中国工商银行北京学清路支行

账 号：0200 1486 0900 0006 131

II. 支付宝账户：info@lancarver.com

III. Paypal: info@lancarver.com

注: 付款成功后, 请预留电邮, 完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱, 如需索取发票, 下单成功后的三个工作日内安排开具并寄出, 预祝合作愉快!

NOTE All documents on the store are in electronic Adobe Acrobat PDF format, there is not sell or ship documents in hard copy. Mail the order and payment information to info@lancarver.com, you will shortly receive an e-mail confirming your order.



银联特约商户

