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# NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# 中华人民共和国国家标准

GB/T 8005.2–2011

# Terms of aluminium and aluminium alloys — Part 2: Chemical analysis

# 铝及铝合金术语 第 2 部分：化学分析

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Standardization Administration of the People's Republic of China

# Contents

# Foreword

GB / T 8005 *Terms of Aluminum and Aluminum Alloys* is divided into three parts:

—Part 1: Product;

—Part 2: Chemical analysis;

—Part 3: Surface treatment;

This Part is Part 2 of GB/T8005.

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

This Part is redrafted and prepared by reference to EN12258-2: 2004 - *Aluminum and Aluminum Alloys - Terms and Definitions - Part 2: Chemical Analysis*, and the degree of consistency with EN12258-2: 2004 is adopted in the modified version. Compared with EN12258-2: 2004, the main changes are as follows:

—Added the normative references GB/T17433 *Basic Term of Chemical Analysis for Metallurgical Products*;

—Added Article "3.54 Others Terms and Definitions";

—Deleted the references to ISO;

—Deleted Annex A.

This Part is under the jurisdiction of National Nonferrous Metals Standardization Technical Committee (SAC/TC243).

The responsible drafting organizations are Northeast Light Alloy Co., Ltd., Quality and Metrology Institute for China Nonferrous Metals Industry Standards.

The chief drafting staff of this standard includes Zhou Bing, Xi Huan, Hu Zhimin, Liu Shuangqing, Wang Zhichao, Guo Rui, Hou Xiangdong, Wang Tao.

# Terms of aluminium and aluminium alloys
# Part 2: Chemical analysis

## 1 Scope

This Part defines the terms related to aluminum and aluminum alloys together with chemical analysis.

This Part applies to chemical analysis of aluminum and aluminum alloys.

## 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 17433 Foundation terms for chemical analysis of metallurgical products

## 3 Terms and definitions

**3.1**

**Accuracy**

Consistent degree between measuring results and the measured truth value or conventional true value

Note: When applied to a group of test results, the term “Accuracy” includes (or describes) random part and common systematic error or deviation part.

**3.2**

**Additive correction; correction by addition**

Calibration of the measured value for analyte is proportional to the content of interference element [see formula (1)].

$$I_{corr} = I - k_a w_{\text{interfering element}} \qquad \cdots\cdots(1)$$

Where:

$I_{corr}$—Calibrated measured value (Intensity);

$I$—Raw measured value (Intensity);

$k_R$—Calibration factors of additive calibration;

$w_{\text{interfering element}}$—Content of interference element.

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