

ICS 77.150.10

H 60



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

中华人民共和国国家标准

GB/T 26492.1-2011

**Defects for wrought aluminium and aluminium
alloys ingots and products—**

Part 1: Defects for ingots

变形铝及铝合金铸锭及加工产品缺陷

第 1 部分：铸锭缺陷

Issued on May 12, 2011

Implemented on February 01, 2012

**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**

Contents

Foreword.....	1
1 Scope	2
2 Definitions, characteristics and main causes of defects.....	2
Annex A (Informative) Chinese Pinyin index	23

Foreword

GB/T 26492 *Defects for Wrought Aluminum and Aluminum Alloys Ingots and Products* is divided into five parts:

- Part 1: Defects for ingot;
- Part 2: Defects for roll-casting strips;
- Part 3: Defects for plates, sheets and strips;
- Part 4: Defects for aluminum foil;
- Part 5: Defects for tube, bar, section and wire rod defects.

This Part is Part 1 of GB/T 26492.

This part is under the jurisdiction of the National Nonferrous Metals Standardization Technical Committee (SAC/TC 243).

The unit responsible for drafting this Part: Northeast Light Alloy Co., Ltd.

The participation drafting organizations are Southwest Aluminum (Group) Co., Ltd., China Aluminum Northwest Aluminum Fabrication Branch, Shandong Yanconla Co., Ltd., Guangdong JMA Aluminum Co., Ltd., Fujian Nanping Aluminum Co., Ltd., Longkou City Conglin Aluminum Co., Ltd..

The chief drafting staff of this standard includes Wu Xinfeng, Lv Xinyu, Wang Meiqi, Li Chengli, Wang Lijuan, Li Haixian, Wang Guifu, Feng Yanbo, Duan Ruifen, Guo Rui, Xie Yancui.

Defects for wrought aluminium and aluminium alloys ingots and products - Part 1: Defects for ingots

1 Scope

This part provides definitions and characteristics of common defects in wrought aluminum and aluminum alloy ingot products, and analyzes the main causes.

This part applies to the analysis and determination of the wrought aluminum and aluminum alloy ingot defects.

2 Definitions, characteristics and main causes of defects

2.1

Nodule of segregation (segregation knoble)

In semi-continuous casting process, the nodule substance generated on the ingot surface is called as the nodule of segregation. The macrostructure characteristic is the uneven bulge on the ingot surface [as shown in Figures 1a) and 1b)], and the second phase at the nodule of segregation in the observation of microstructure is larger than that of matrix, and with compact distribution and larger volume fraction, and sometimes the primary crystal can be found at the nodule of segregation [as shown in Figure 1c)];

The main causes:

- a) High casting temperature, fast casting speed;
- b) Crystallizer or core taper is too large;
- c) Low cooling intensity or lack of water of internal crystallizer;
- d) Funnel is placed in obliquity.



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

或咨询：

TEL: 400-678-1309

QQ: 19315219

Email: info@lancarver.com

<http://www.lancarver.com>

线下付款方式：

1. 对公账户：

单位名称：北京文心雕语翻译有限公司

开户行：中国工商银行北京清河镇支行

账 号：0200 1486 0900 0006 131

2. 支付宝账户：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！



银联特约商户