

ICS 77.150.10

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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 26492.2-2011

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

**Part 2: Defects for roll-casting strips**

**变形铝及铝合金铸锭及加工产品缺陷**

**第 2 部分：铸轧带材缺陷**

**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

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## 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 2 of GB/T 26492.

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

The responsible drafting organizations are North China Aluminium Co., Ltd.

The participation drafting organizations are Chinalco Ruimin Co., Ltd., Yunnan new Alcoa aluminum foil, Aluminum Foil Co., Ltd., China Aluminum Northwest Aluminum Fabrication Branch, Zhengzhou Aluminum Co., Ltd., Northeast Light Alloy Co., Ltd., Jiangsu Alcha Aluminum Co., Ltd..

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

## Part 2: Defects for roll-casting strips

### 1 Scope

This Part specifies the definitions and characteristics of common defects in double roll continuous cast-rolling aluminium strip products, and analyzes the main reasons. This Part applies to the analysis and determination of wrought aluminium and aluminium alloys roll-casting strips produced by double roll casting machine.

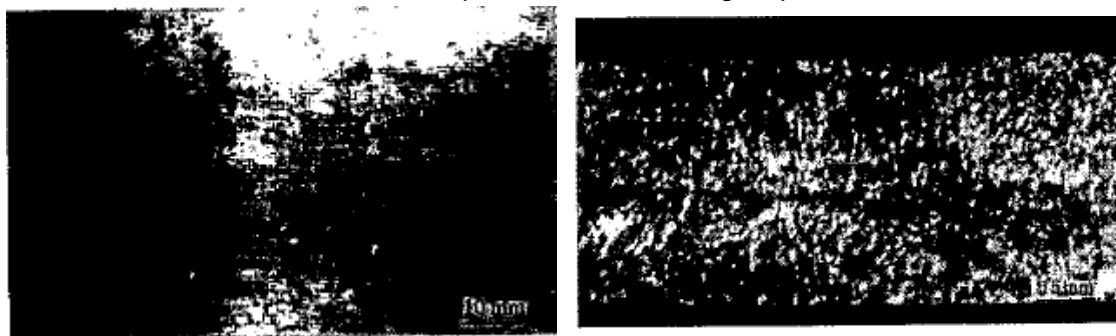
### 2 Definitions, characteristics and main reasons of defects

#### 2.1

##### Lamination crack

It has lamination separated by low-melting-point phase and Fe, Si and other inclusions under the roll-casting strip. Sometimes, the lamination extends to the surface to form a horseshoe-shaped fracture [as shown in Fig. 1a)]. This extended defects or the defects failed to extend to the surface is called lamination crack. The lamination crack is generally separated individually and appeared in groups [as shown in Fig. 1b)]. The structures on both sides of cracks have significant difference, with less low-melting point phases and inclusions phases on the surface, coarse grains, and with more low-melting point phases and impurity phases internally, and fine grains.

The main reasons: the lamination crack is caused by the kish shear-resistant strength smaller than the additional shear stress between adhesive surface area and central deformation area in the solidification process of roll-casting strips.



a) Surface

b) Lateral section

Figure 1 Lamination crack

#### 2.2

##### Run-through crack

The arc, V-shape or without horizontal crack or fracture on the roll-casting strip surface; they will be a crack strip along the rolling direction. It is often accompanied by void, surface segregation strip, coarse crystal strip and other defects.

The main reasons:

- a) The feeding mouth is blocked partially;
- b) The lips is damaged or slagged partially.



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