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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
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GB/T 26492.3—2011

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

Part 3: Defects for plates, sheets and strips

变形铝及铝合金铸锭及加工产品缺陷

第 3 部分：板、带缺陷

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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 cast-rolling strips;
- Part 3: Defects for plates, sheets and strips;
- Part 4: Defects for aluminum foil;
- Part 5: Defects for tube, bar, profile and wire rod.

The Part is Part 3 of GB/T 26492.

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

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Defects for wrought aluminium and aluminium alloys ingots and products-

Part 3: Defects for plates, sheets and strips

1 Scope

The Part specifies the definitions and characteristics of common defects for wrought aluminum and aluminum alloy ingot plates, sheets and strips products, and analyzes its main causes. The Part applies to analysis and judgment of the wrought aluminum and aluminum alloy ingot plates, sheets and strips defects.

2 Definitions, characteristics and main causes of defects

2.1

Blister

Irregular circular or strip cavity bulge on plate, strip surface. Raised edge is smooth; the plate is asymmetric on the top and bottom, with irregular distribution (As shown in Figure 1)

Main causes:

- a) Ingot surface is uneven, not clean, and surface segregation tumor depth is deeper;
- b) A small amount of surface milling or surface defects, such as: pit or deeper milling marks;
- c) Coolant or air enters into the gap between the alclad plate and ingot;
- d) Ingot heating temperature is too high or the heating time is too long;
- e) Heat treatment temperature is too high.



Figure 1 Bubbles

2.2

Burr

After the cutting, there are unequal-sized fine and short filaments or sharp and thin metal burrs on the plate and strip edge.

Main causes:

- a) Shear blade is not sharp;
- b) Shear blade lubrication is poor;
- c) Shear blade gap and overlap are not properly adjusted.

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