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

GB/T 22085.2-2008

**Electron and laser beam welded joints -- Guidance on quality
levels for imperfections -- Part 2: Aluminium and its weldable
alloys**

(English Translation)

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Foreword

GB/T 22085 Electron and Laser Beam Welded Joints - Guidance on Quality Levels for Imperfections consists of the following two parts:

- Part 1: Steel;
- Part 2: Aluminum and its weldable alloy.

This Part is Part 2 of GB/T 22085.

This Part equivalently adopts ISO 13919-2:2001 Welding - Electron and Laser Beam Welded Joints

- Guidance on Quality Levels for Imperfections - Part 2: Aluminum and its Weldable Alloys (English Version).

This Part equivalently translated ISO 13919-2:2001. For the benefit of use, this Part made the

following editorial modifications:

- Delete the Foreword of the international standard;
- Change the standard name into Electron and Laser Beam Welded Joints - Guidance on Quality Levels for Imperfections - Part 2: Aluminum and its Weldable Alloy;
- For other international standards cited in ISO 13919-2:2001, if they are equivalently adopted

as Chinese standards, the corresponding international standards will be replaced by Chinese

standards;

--- Combine the "Instructions" of ISO 13919-2:2001 into Annex A.

The Annex A of this Part is informative.

This Part was proposed by and under the jurisdiction of National Technical Committee on Welding

of Standardization Administration of China.

Drafting organizations of this Part: Harbin Welding Institute.

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Electron and Laser Beam Welded Joints - Guidance on

Quality Levels for Imperfections - Part 2: Aluminum and Its

Weldable Alloys

1 Scope

This Part of GB/T 22085 specifies guidance on levels of imperfections in electron and laser beam

welded joints in aluminum and its alloys.

This Part applies to the aluminum and its alloys with thickness of 1mm above.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in

this Part of GB/T 22085. For dated references, the subsequent amendments (excluding corrigendum)

or revisions do not apply to this Part, however, parties who reach an agreement based on this Part

are encouraged to study if the latest versions of these documents are applicable. For undated

references, the latest edition of the referenced document applies.

GB/T 6417.1-2005 Classification and explanation of imperfections in fusion welded joints (ISO 6520-1:1998, IDT)

GB/T 22087-2008 Arc-welded Joints in Aluminum and its Alloys-Guidance on Quality Levels for Imperfection (ISO 10042:2005, IDT)

3 Symbols

The following symbols are used in Table 1:

ΔL : distance between two imperfections (pore, cavity);

b - width of weld;

b_r - width of weld root

d - maximum size of an imperfection (pore, cavity);

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