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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 2651–2008/ISO 4136: 2001

Replace GB/T 2651–1989

Tensile test method on welded joints

焊接接头拉伸试验方法

(ISO 4136: 2001, Destructive tests on welds in metallic materials—Transverse tensile test, IDT)

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**Standardization Administration of the People's Republic of
China**

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Foreword

This Standard is identical to ISO 4136: 2001 Destructive tests on welds in metallic materials—Transverse tensile test (English version).

This Standard identical to translate ISO 4136: 2001. For ease of use, main changes of this Standard are as follows:

- Deleted the Foreword in International Standard;
- Changed the standard name as “Tensile test method on welded joints”;
- For reference standard in ISO 4136: 2001, replaced by National Standard.

This Standard is revision of GB/T 2651-1989 *Method of tensile test for welded joint*, and combined the “Tensile test method on welded joints” in GB/T 2651-1989 Method of tensile test for welded joint.

Comparison with GB/T 2651-1989, main changes of this Standard are as follows:

- Added the “Principle”, “Symbol and Abbr” and “Test Procedure”;
- Added the content of preparation of sample;
- Deleted the content of shearing test of spot-welded joint in previous standard;
- Added the “Example of test report”.

Annex A of this Standard is informative annex.

This Standard is proposed and under the jurisdiction of National Technical Committee on Welding of Standardization Administration of China.

The responsible drafting organization is Harbin Welding Research Institute.

The chief drafting staff of this standard includes Cheng Binhuang and Qu Weili.

This standard replaces the following historical editions issued:

- GB 2651-1981 and GB/T 2651-1989.

Tensile test method on welded joints

1 Scope

This Standard specifies the sizes of test specimen and the procedure for carrying out transverse tensile tests of welded joint.

This Standard applies to metallic materials melting and pressure welding joint.

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 (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 228-2002 Metallic materials--Tensile testing at ambient temperature (eqv ISO 6892: 1998)

GB/T 5185-2005 Welding and allied processes—Nomenclature of processes and reference numbers (ISO 4063: 1998, IDT)

3 Principle

Tensile test according to GB/T 228.

Unless otherwise specified, the test shall be carried out at ambient temperature (23 ± 5) °C

4 Symbols

The symbols and abbreviated terms to be used for the transverse tensile tests are specified in Table 1 and represented in Figures 1 to 3.

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