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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 2653–2008/ISO 5173: 2000

Replace GB/T 2653–1989

Bend test methods on welded joints

焊接接头弯曲试验方法

(ISO 5173: 2000, Destructive tests on welds in metallic materials—Bend test, IDT)

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China**

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Foreword

This Standard is identical to ISO 5173: 2000 *Destructive tests on welds in metallic materials—Bend test* (English version).

This Standard identical to translate ISO 5173: 2000. 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 methods on bend joints”;

This Standard is revision of GB/T 2653-1989 *Methods of bend and compression tests for welded joint*, and combined the “Bend test method on welded joints” in GB/T 2649-1989 *Methods of sampling for mechanical properties tests of welded joint*.

Comparison with GB/T 2653-1989, 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 Flattening test 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 2653-1981 and GB/T 2653-1989.

Bend test methods on welded joints

1 Scope

This Standard specifies bend test methods on welded joints.

This Standard applies to bend test of metallic materials melting welding joint.

2 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

2.1

face bend test specimen for a butt weld, FBB

specimen for which the surface in tension is the side which contains the greater width of the weld or the side from which the welding arc was first applied, applicable to both transverse and longitudinal butt weld specimens

See Figures 1 and 3.

2.2

root bend test specimen for a butt weld, RBB

specimen for which the surface in tension is the side opposite to that of the face butt weld bend test specimen applicable to both transverse and longitudinal butt weld specimens,

See Figures 1 and 3.

2.3

transverse side bend test specimen for a butt weld, SBB

specimen for which the surface in tension is a cross-section of the weld

See Figure 2.

2.4

face bend test specimen for cladding without a butt weld, FBC

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