

JIS

JAPANESE INDUSTRIAL STANDARD

Method of test for seam welded joints

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**Business Department,
Japanese Standards Association**
4-1-24, Akasaka, Minato-ku,
Tokyo, JAPAN 107
TEL. 03-3583-8002
FAX. 03-3583-0462

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Method of test for seam welded joints

Z 3141-1996

1. Scope This Japanese Industrial Standard specifies the test method of the lap seam welded joints of the metallic material of 0.3 to 3.2 mm in thickness.

Remarks: The following standard is cited in this Standard.

JIS Z 3001 Welding terms

2. Definitions For the purpose of this Standard, the definitions given in JIS Z 3001 apply.
3. Kinds of test The kinds of the test shall be three consisting of leak test, peel test and section macroscopic test.

4. Test material and test piece

4.1 Preparation of test material Preparation of the test material shall be as follows.

- (1) Material The material to be used for the test material shall be equivalent to those to be used in the practical works in terms of the kind of the material, the thickness, the heat treatment condition and the surface condition.
- (2) Welding facilities The welding facilities such as the power source, the welding machine, and the control device to prepare the test material shall be the same as those to be used in the practical works.
- (3) Welding conditions The welding conditions to prepare the test material shall be the same as those to be used in manufacturing the practical products.
- (4) Electrodes The disc electrode to be used in preparing the test material shall be the same as that to be used in the practical works in terms of the material, the shape and the dimensions.

4.2 Dimensions of test material and test piece

- 4.2.1 Leak test piece The dimensions of the leak test piece shall be as indicated in Fig. 1 (a). However, the corner part may be of arbitrary radius R as indicated in Fig. 1 (b) according to the purpose.