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JIS

JAPANESE INDUSTRIAL STANDARD

Test Pieces for Impact Test for Metallic Materials

JIS Z 2202 -1980

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by

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JAPANESE INDUSTRIAL STANDARD J I S

Test Pieces for Impact Test for Metallic Materials

Z 2202-1980

1. Scope

This Japanese Industrial Standard specifies the test pieces for the impact test of metallic materials, hereinafter referred to as the "test pieces". The selection of a type of test piece to be used shall be in accordance with the standard for a particular material.

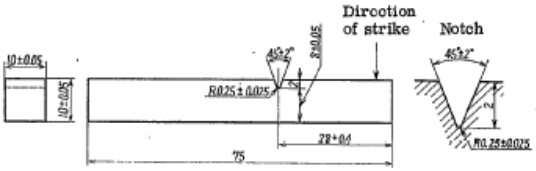
2. Form and Dimensions of Test Piece

The test pieces shall be classified into five types, Nos. 1 to 5, according to the form and dimension. The dimensions of each type of test piece shall conform to the following:

(1) No. 1 Test Piece This test piece shall be used for Izod impact test.

Fig. 1

Unit: mm



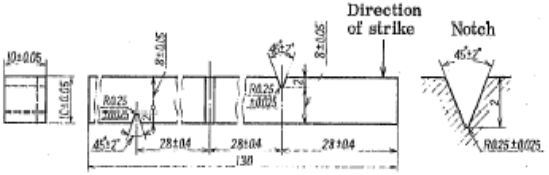
Applicable Standard:

JIS Z 2242-Method of Impact Test for Metallic Materials

(2) No. 2 Test Piece This test piece shall be used for Izod impact test.

Fig. 2

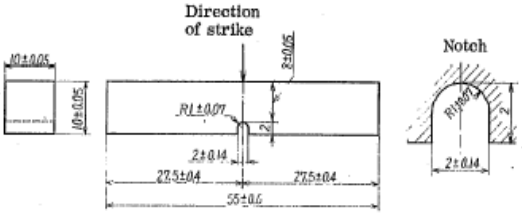
Unit: mm



(3) No. 3 Test Piece This test piece shall be used for Charpy impact test.

Fig. 3

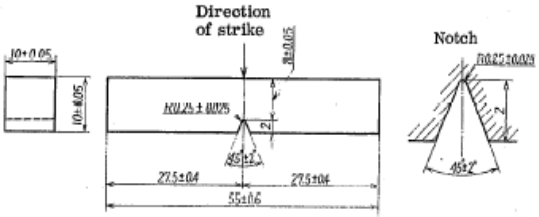
Unit: mm



(4) No. 4 Test Piece This test piece shall be used for Charpy impact test.

Fig. 4

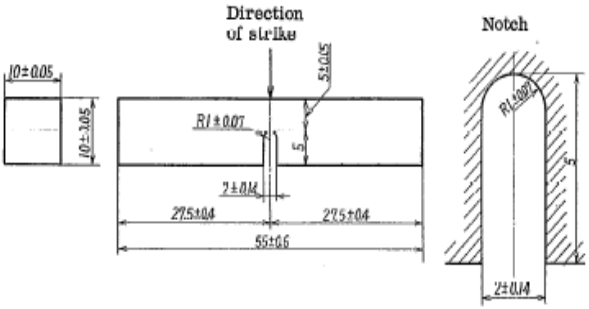
Unit: mm



(5) No. 5 Test Piece This test piece shall be used for Charpy impact test.

Fig. 5

Unit: mm



(6) Subsize Test Piece If the standard test piece can not be obtained from the material, the subsize test piece having width (Note (1)) less than 10 mm may be used. The width shall be 7.5, 5 or 2.5 mm, and the tolerances on each shall be ± 0.05 mm. In the case where a subsize test piece was used, its width shall be noted, in addition to its type, on the report.

Example: No. 3 test piece (width: 5 mm)

Note (1) Thickness, Width and Length of Test Piece: A dimension of test piece in the direction of strike in the impact test is defined as the thickness, that in the direction along the striking edge to touch the test piece as the width, and that at right angles to the foregoing two as the length.

3. Machining of Test Piece

Any two adjacent longitudinal faces of the test piece shall be at right angles to each other, and the plane of symmetry of the notch shall be within 90 ± 2° to the longitudinal axis of the test piece. The four longitudinal faces of the test piece shall be finished flat and smooth, and the notch shall be carefully prepared so that any detrimental tool mark is not apparent at the base of the notch.

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