

JIS

JAPANESE INDUSTRIAL STANDARD

Method of Rotating Bending
Fatigue Testing of Metals

JIS Z 2274 —1978

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JAPANESE INDUSTRIAL STANDARD

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Method of Rotating Bending Fatigue
Testing of Metals

Z 2274-1978

1. Scope

This Japanese Industrial Standard specifies the method of rotating bending fatigue testing of metals by the use of standard test pieces to be carried out at room temperature, in air, covering the fatigue life at the number of stress cycles not less than 10^4 . The rotating bending herein signifies a loading method in such a manner that the repeated stress is applied to the test piece, while the test piece having the axis in the bending moment plane rotates relatively to the plane of the bending moment.

2. Definitions

The definitions of the main terms used in this standard shall be in accordance with 2. of JIS Z 2273.

Applicable Standards:

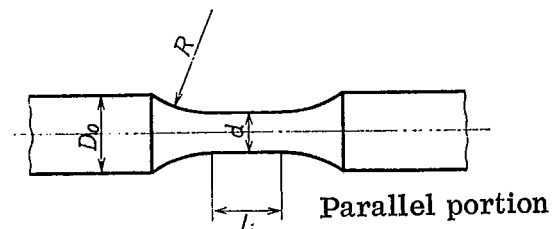
JIS Z 2273-General Rules for Fatigue Testing of Metals

JIS Z 8401-Rules for Rounding Off of Numerical Values

3. Test Pieces

3.1 The standard test pieces are classified into No. 1 to No. 3 test pieces depending on their shape, and their standard dimensions shall be as shown in Figs. 1 to 3.

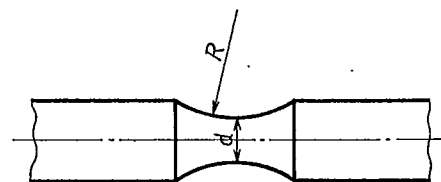
Fig. 1. No. 1 Test Piece



Symbol	d mm	R	L
1- 6	6	3 d or more	2 d or more
1- 8	8		
1-10	10		
1-12	12		

D_0 shall, as a rule, be 8, 12, or 15 mm.

Fig. 2. No. 2 Test Piece



Symbol	d mm	R
2- 6	6	5 d or more
2- 8	8	
2-10	10	
2-12	12	

D_0 shall, as a rule, be 8, 12, or 15 mm.