

JIS

JAPANESE INDUSTRIAL STANDARD

**General rule of ultrasonic
testing of metals by
pulse echo technique**

JIS Z 2344^{—1993}

Translated and Published

by

Japanese Standards Association

**In the event of any doubt arising,
the original Standard in Japanese is to be final authority.**

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metals by pulse echo technique

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1. Scope This Japanese Industrial Standard specifies the general items relating to detection and evaluation a discontinuity (hereafter called "flaw") by the ultrasonic testing using pulse echo technique with A scope presentation (hereafter called "ultrasonic testing").

Remarks: The following standards are cited in this Standard.

JIS Z 2300-Glossary of terms used in nondestructive testing

JIS Z 2345-Standard test blocks for ultrasonic testing

JIS Z 2350-Method for measurement of performance characteristics of ultrasonic probes

JIS Z 2352-Method for assessing the overall performance characteristics of ultrasonic pulse echo testing instrument

JIS Z 2354-Method for measurement of ultrasonic attenuation coefficient of solid by pulse echo technique

2. Definition of terms The definitions of the major technical terms used in this Standard are subject to JIS Z 2300.

3. Presentation of testing diagram

3.1 Basic symbols The following basic symbols should be applied to display the testing diagram, and the examples of the use of these symbols are shown in Fig. 1.

T : Transmitter pulse indication

F : Flaw echo

B : Back wall echo (including edge echo)

S : Surface echo (used in the immersion testing method)

W : Side wall echo

Related standard:

JIS Z 2351- Method for assessing the electrical characteristics of ultrasonic testing instrument using pulse echo technique