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(JSNDI/JSA)

**Standard test blocks for ultrasonic
testing—Part 1: A1 Standard Test
Block**

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In the event of any doubts arising as to the contents,
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Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by The Japanese Society for Non-Destructive Inspection (JSNDI)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently **JIS Z 2345**:2000 has been withdrawn and partially replaced with this Standard.

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JIS Z 2345 series consists of the following 4 parts under the general title “*Standard test blocks for ultrasonic testing*”:

Part 1: A1 Standard Test Block

Part 2: A7963 Standard Test Block

Part 3: Standard test blocks for normal ultrasonic testing

Part 4: Standard test blocks for angle beam ultrasonic testing

Standard test blocks for ultrasonic testing—Part 1: A1 Standard Test Block

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 2400:2012**, Edition 2, with some modifications of the technical contents.

It constitutes Part 1 of the four-part standard series of **JIS Z 2345**, which was initially established as a single standard in 1973 to provide comprehensive standard test block requirements, revised in 2000, and has been newly established at this time as four separate standards with the aim of ensuring conformity to **ISO 2400:2012** and **ISO 7963:2006**. The **JIS Z 2345** standard series consists of the following parts: Part 1: A1 Standard Test Block, Part 2: A7963 Standard Test Block, Part 3: Standard test blocks for normal ultrasonic testing, and Part 4: Standard test blocks for angle beam ultrasonic testing.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies requirements for the dimensions, material and manufacture of A1 Standard Test Blocks for calibrating ultrasonic test equipment used in manual testing.

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence is as follows.

ISO 2400:2012 *Non-destructive testing—Ultrasonic testing—Specification for calibration block No.1* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 3106 *Rolled steels for welded structure*

JIS G 4051 *Carbon steels for machine structural use*

JIS K 2238 *Machine oils*

JIS Z 2300 *Terms and definitions of nondestructive testing*

JIS Z 2345-3 *Standard test blocks for ultrasonic testing—Part 3: Standard test blocks for normal ultrasonic testing*