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

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Friction Joining Association (JFJA)/ Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS Z 3607:1994** is replaced with this Standard.

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Friction welding of metallic materials

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 15620** published in 2000 with some modifications of the technical contents for convenience of standard users.

The portions given dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JB. The matters contained in Annex JA are unique contents of **JIS** that are not given in the corresponding International Standard.

1 Scope

This Standard specifies requirements for the friction welding of components manufactured from metals.

It specifies requirements particular to rotational friction welding related to welding knowledge, quality requirements, welding procedure specification, welding procedure approval and welding personnel.

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

ISO 15620:2000 *Welding—Friction welding of metallic materials* (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 Z 2248 *Metallic materials—Bend test*

JIS Z 3001 (series) *Welding and allied processes—Vocabulary*

JIS Z 3122 *Methods of bend test for butt welded joint*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS Z 3001** series, and the following apply.

3.1 axial force

axial force between components to be welded

3.2 axial pressure

pressure (force per unit area) on the faying surfaces