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**Methods of test and classification of
quality evaluations for friction welded
joints on dissimilar metallic materials**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

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Methods of test and classification of quality evaluations for friction welded joints on dissimilar metallic materials

1 Scope

This Japanese Industrial Standard specifies test methods for evaluating mechanical properties of the joints on dissimilar metallic materials prepared by friction welding (hereafter referred to as “welded joint”) and classification of quality evaluations for welded joints.

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 3446 *Stainless steel pipes for machine and structural purposes*

JIS G 3448 *Light gauge stainless steel tubes for ordinary piping*

JIS G 4303 *Stainless steel bars*

JIS G 4304 *Hot-rolled stainless steel plate, sheet and strip*

JIS G 4305 *Cold-rolled stainless steel plate, sheet and strip*

JIS G 4309 *Stainless steel wires*

JIS H 4000 *Aluminium and aluminium alloy sheets, strips and plates*

JIS H 4040 *Aluminium and aluminium alloy bars and wires*

JIS H 4080 *Aluminium and aluminium alloy extruded tubes and cold-drawn tubes*

JIS H 4100 *Aluminium and aluminium alloy extruded profiles*

JIS Z 2241 *Metallic materials — Tensile testing — Method of test at room temperature*

JIS Z 3001-1 *Welding and allied processes — Vocabulary — Part 1 : General*

JIS Z 3001-2 *Welding and allied processes — Vocabulary — Part 2 : Welding processes*

JIS Z 3121 *Methods of tensile test for butt welded joints*

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

JIS Z 3607 *Friction welding of metallic materials*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in JIS Z 3001-1, JIS Z 3001-2 and JIS Z 3607 apply.