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Standard qualification test and acceptance requirements for welding technique of titanium

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Foreword

This Japanese Industrial Standard has been 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 The Japan Welding Engineering Society (JWES)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS Z 3805** : 1997), which has been technically revised.

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Standard qualification test and acceptance requirements for welding technique of titanium

1 Scope

This Japanese Industrial Standard specifies the standard qualification test and acceptance requirements for welders' welding technique of titanium by TIG welding and MIG welding in the atmosphere. However, the TIG semi-automatic welding shall be excluded.

2 Normative references

Part or all of the provisions of the following standards, 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 H 4600	Titanium and titanium alloys — Sheets, plates and strips
JIS H 4630	Titanium and titanium alloys — Seamless pipes
JIS H 4635	Titanium and titanium alloys — Welded pipes
JIS Z 3001-1	Welding and allied processes — Vocabulary — Part 1 : General
JIS Z 3001-2	<i>Welding and allied processes — Vocabulary — Part 2 : Welding pro-</i> cesses
JIS Z 3001-4	<i>Welding and allied processes — Vocabulary — Part 4 : Imperfections in welding</i>
JIS Z 3001-7	Welding and allied processes — Vocabulary — Part 7 : Arc welding
JIS Z 3122	Methods of bend test for butt welded joint
JIS Z 3253	Shielding gases for fusion welding and thermal cutting
JIS Z 3331	Welding rods and solid wires for welding of titanium and titanium al-

3 Terms and definitions

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For the purpose of this Standard, the following terms and definitions, and those given in JIS Z 3001-1, JIS Z 3001-2, JIS Z 3001-4 and JIS Z 3001-7 apply.

3.1

jig for auxiliary gas shield

instrument other than a torch for covering the weld with shielding gas to prevent oxidation and nitriding of the weld