

JIS

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JIS G 0567 : 1998

Method of elevated temperature tensile test for steels and heat-resisting alloys

ICS 77.040.99

Descriptors : ferrous metals, heat-resistant materials, tensile testing, refractory
metal alloys, high-temperature testing

Reference number : JIS G 0567 : 1998 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently JIS G 0567 : 1993 is replaced with JIS G 0567 : 1998.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,
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Method of elevated temperature tensile test for steels and heat-resisting alloys

Introduction This Japanese Industrial Standard is prepared by the corresponding International Standard on the corresponding part based on ISO 783 : 1989 *Metallic materials—Tensile testing at elevated temperature* without changing the technical contents. However, in JIS, a test piece with a collar which has been used traditionally, is specified. This is because the test piece with a collar secures fitting operation of an extensometer to obtain further accurate material characteristic value, and is used domestically.

1 Scope This Japanese Industrial Standard specifies the method of tensile test for steels and heat-resisting alloys at temperature exceeding ordinary temperature.

Remarks : The corresponding International Standard is shown as follows.

ISO 783 : 1989 *Metallic materials—Tensile testing at elevated temperature*

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards indicated below shall be applied.

JIS B 7721 *Verification of the force measuring system of the tensile testing machine*

JIS B 7741 *Verification of extensometers used in uniaxial testing*

JIS C 1602 *Thermocouples*

JIS G 0202 *Glossary of terms used in iron and steel (testing)*

JIS Z 2201 *Test pieces for tensile test for metallic materials*

JIS Z 2241 *Method of tensile test for metallic materials*

JIS Z 8704 *Temperature measurement—Electrical methods*

3 Definitions For the main terms used in this Standard the definitions in JIS G 0202 apply, and the symbols and definitions to be used subjected to the agreement between the supplier and the purchaser are as follows.

a) gauge length

- 1) **original gauge length (L_0)** Gauge length before application of force.
- 2) **final gauge length (L_u)** Gauge length after rupture, the two pieces having been carefully fitted back together so that their axes lie in a straight line.

b) extensometer gauge length (L_e)

c) elongation