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National Standard of the People's Republic of China

中华人民共和国国家标准

GB/T 4338--2006

Replace GB/T 4338—1995

**Metallic Materials—Tensile Testing at
Elevated Temperature**

金属材料 高温拉伸试验方法

(ISO 783:1999, MOD)

Issued on: August 18, 2006

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**Issued by General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China
Standardization Administration of the People's Republic of China**

Foreword

This national standard is modified in relation to ISO 783:1999 “Metallic Materials—Tensile Testing at Elevated Temperature” (English edition).

This standard is redrafted according to ISO 783:1999. As a matter of convenience for comparison, comparison schedule between clauses in national standard and international standard are listed in Appendix J.

By referring to China’s actual conditions, this standard makes some modification when adopting the international standard. These technical discrepancies are showed by using vertical singlet at the page margin of related clauses. Appendix K indicates the technical discrepancies and its cause schedule for your guidance.

As for the international standards quoted in ISO 783:1999 which are modified and China’s standards adopted, this standard cites China’s national standards and professional standards to replace correspondent international standards, relevant quoted standards are added (See chapter 2 of this standard).

In order to make it convenient for use, this standard makes the following editing modification:

- “this international standard” is replaced by “this standard”;
- Decimal point “.” is replaced by “,”;
- Foreword of ISO 783:1999 is deleted.

This standard replace GB/T 4338—1995 “Metallic Materials—Tensile Testing at Elevated Temperature”.

This standard, based on the revision of GB/T 4338—1995, modification and supplement are made to the following technical contents:

- Quoted standards;
- Terms and symbols;
- Sample;
- Test temperature;
- Test equipment;
- Outcome value rounding-off method of performance measurement;
- Performance measurement method.

Appendix A, Appendix B, Appendix C, Appendix D and Appendix E of this standard is normative Appendix; Appendix F, Appendix G, Appendix H, Appendix I, Appendix J and Appendix K are Informative Appendix.

This standard was proposed by China Iron & Steel Association.

This national standard is under the jurisdiction of China Steel Standardization Technical Committee

This national standard was drafted by China Iron & Steel Research Institute Group, China Metallurgical Information Standardization Research Institute and General Research Institute for Nonferrous Metals.

This standard is drafted by Zhao Junping, Li Jiulin, Zhun Tiezhun, Dong Li and Wang Fusheng.

Replaced distribution of this standard are GB/T 4338—1984 and GB/T 4338—1995.

Metallic Materials—Tensile Testing at Elevated Temperature

1 Scope

This national standard specifies terminology, definition, symbol, name, experimentation principle, test equipment, sample, test method, result treatment and test report of metallic material tensile test method at 35°C.

This standard is applicable to metallic material tensile test at 35°C.

2 The Normative References

The following normative documents contain provision which, through reference in this text, constitute provisions of this national standard. For all the citation files that bear the dates, all the subsequent amendment documents (not including the corrected contents) or the revised edition are not applicable to this standard, yet, all parties that enter into an agreement according to this standard are encouraged to research whether the latest edition of these documents can be used. For undated references, the latest edition of the normative document referred to applies.

GB/T 228 Metallic Materials—Tensile Testing at Ambient Temperature (GB/T 228—2002, eqv ISO 6892:1998)

GB/T 2975 Steel and Steel Products—Location and Preparation of Test Pieces for Mechanical Testing (GB/T 2975—1998, eqv ISO 377:1997)

GB/T 8170 Rules for Rounding-off of Numerical Values

GB/T 12160 Calibration of Extensometers Used in Uniaxial Testing (GB/T 12160—2002, ISO 9513:1999, IDT)

GB/T 16825.1 Verification of Static Uniaxial Testing Machines—Part 1: Tension/Compression Testing Machines—Verification and Calibration of the Force-measuring System (GB/T 16825.1—2002, ISO 7500-1: 1999, IDT)

GB/T 17600.1 Steel—Conversion of Elongation Values—Part 1: Carbon and Low Alloy Steels (GB/T 17600.1—1998, eqv ISO 2566 - 1:1984)

GB/T 17600.2 Steel—Conversion of Elongation Values—Part 2: Austenitic Steels (GB/T 17600.2—1998, eqv ISO 2566-2:1984)

JJG 141 Working Noble Metal Thermocouples

JJG 351 Verification Regulation of Working Base Metal Thermocouple

3 Terminologies and Definition

This standard adopts the following terminologies and definitions.

3.1 Gauge length



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