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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 17554-1998

**Cards and security devices for personal identification - Test
methods - Part 1: General characteristics
(English Translation)**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 1 of GB/T 17554. GB/T 17554 has been published in the following parts.

- Test methods for cards and identity security devices Part 1: General characteristics;
- Identification card test methods Part 2: Cards with magnetic stripe;
- Identification card test methods Part 3: Integrated circuit cards with contacts and related interface devices;
- Identification card test methods Part 7: Proximity cards.

This document replaces GB/T 17554.1-2006 "Identification card test method Part 1: General characteristics test" and Compared with GB/T 17554.1-2006, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Added terms and definitions such as "basic standard", "electrostatic discharge" and "electrostatic stress" (see 3.1.12, 3.1.13, 3.1.14);
- Deleted the terms and definitions such as "flammability", "transmittance", "transmittance density" and "normal use" (see 3.12, 2006 edition) 3.13, 3.14, 3.15);
- Deleted "select the test according to the characteristics presented by the card" (see Table 1 of the 2006 edition);
- Changed "total measurement uncertainty" to "total measurement uncertainty" (see 4.5,

4.5 of the 2006 edition);

--- Deleted the "flammability" and "static magnetic field" test methods (see 5.10 and 5.14 of the 2006 edition);

--- Added "peel strength including card edge", "surface distortion, raised area and recessed area", "toxic and hazardous substance content" tests Methods (see 5.4, 5.16, 5.17);

--- Technical improvements have been made to the dynamic bending stress calibration method, and "calibration method" has been added (see 5.9.3, 5.8 of the 2006 edition);

--- Changed the "Opacity" spectral measurement range to meet the requirements of the basic standard GB/T 14916-2022 (see 5.11, 2006 Version 5.11);

--- Added "Test methods for IC cards" (see Chapter 6).

This document is modified to adopt ISO/IEC 10373-1:2020 "Test methods for cards and identity security devices - Part 1: General characteristics" sex".

This document has the following structural adjustments compared to ISO/IEC 10373-1:2020.

--- Add 5.12 (ultraviolet rays) and 5.17 (toxic and hazardous substances content), delete 3.1.12, 3.1.16, 6.8, Appendix A, Appendix B, Figure 21, Figure 22 and Figure 23;

---3.1.12 corresponds to 3.1.13 in ISO/IEC 10373-1:2020;

---3.1.13 corresponds to 3.1.14 in ISO/IEC 10373-1:2020;

---3.1.14 corresponds to 3.1.15 in ISO/IEC 10373-1:2020;

---5.13 corresponds to 5.12 in ISO/IEC 10373-1:2020;

---5.14 corresponds to 5.13 in ISO/IEC 10373-1:2020;

---5.15 corresponds to 5.14 in ISO/IEC 10373-1:2020;

---5.16 corresponds to 5.15 in ISO/IEC 10373-1:2020;

---6.8 corresponds to 6.9 in ISO/IEC 10373-1:2020;

---6.9 corresponds to 6.10 in ISO/IEC 10373-1:2020.

The technical differences between this document and ISO/IEC 10373-1:2020 and their reasons are as follows.

--- IEC 60749-26 (see 6.5) was replaced by the normative reference GB/T 4937.26 to adapt to my country's technical conditions;

--- ISO 9227 (see 5.5) is replaced by the normative reference GB/T 10125 to adapt to my country's technical conditions;

--- ISO/IEC 7810 (see 5.3.1) is replaced by the normative reference GB/T 14916 to adapt to

my country's technical conditions;

--- ISO/IEC 7816-1 (see 6.4.4) is replaced by the normative reference GB/T 16649.1 to adapt to my country's technical conditions;

--- ISO/IEC 7816-2 (see 6.3) is replaced by the normative reference GB/T 16649.2 to adapt to my country's technical conditions;

--- ISO/IEC 10373-2 (see 5.16) was replaced by the normative reference GB/T 17554.2 to adapt to my country's technical conditions;

--- IEC 61000-4-2 (see 6.6.2) was replaced by the normative reference GB/T 17626.2 to adapt to my country's technical conditions;

--- ISO 3696 (see 5.5) was replaced by GB/T 6682 to adapt to my country's technical conditions and included in the references;

--- Deleted two terms and definitions such as "dual interface chip card" and "electrostatic discharge conductivity" (see ISO/IEC 10373-1:2020 3.1.12, 3.1.16);

--- Added normative references to GB/T 39560 (all parts) to provide test for the added "toxic and hazardous substances content" requirement method;

--- Deleted 3.1.2e of ISO/IEC 10373-1:2020), only memory cards have no practical application in China (see 3.1.2);

---The test method of "light blocking" has been changed to meet the requirements of the supporting basic standard GB/T 14916-2022 and meet the current domestic application status (See 5.11, 5.11 of ISO/IEC 10373-1:2020);

--- Added two test methods, "ultraviolet rays" (see 5.12) and "toxic and hazardous substances content" (see 5.17), to support the basic standards Requirements for "light" and "toxicity" in GB/T 14916-2022;

--- Deleted "Additional test methods for electrostatic effects" (see 6.8 of ISO/IEC 10373-1:2020).

The following editorial changes were made to this document.

--- Incorporated the amendments to ISO/IEC 10373-1:2020/Amd1.2023, the outer margin positions of the clauses involved it is marked with vertical double lines (||);

--- Deleted the document "ANSI/ESDA/JEDECJS-002" (see ISO/IEC 10373-1:2020) referenced in the informative appendix Chapter 2 of);

--- Changed the description of abbreviations in 3.2 to comply with the requirements of national standards (see 3.2 of ISO/IEC 10373-1:2020);

--- Changed the duplication of the original index number 2 in Figure 26 (see Figure 28 of ISO/IEC 10373-1:2020);