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

GB/T 37977.61-2026

**Electrostatics - Part 6-1: Electrostatic control in healthcare,
commercial and public facilities - Healthcare**

静电学 第6-1部分：医疗、商业和公共场所的静电控制 医疗卫生

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 6-1 of GB/T 37977 "Electrostatics". GB/T 37977 has the following parts published.

- Part 2-1. Test methods for the static charge dissipation capability of materials and products;
- Parts 2-3. Test methods for resistance and resistivity of antistatic solid planar materials;
- Part 3-2. Simulation Methods for Electrostatic Effects. Electrostatic Discharge Test Waveforms of Machine Models (MM);
- Part 4-1. Standard Test Methods for Specific Applications. Resistance of Floor Coverings and Assembled Floors;
- Part 4-3. Standard Test Methods for Footwear in Specific Applications;
- Part 4-4. Standard Test Methods for Specific Applications - Electrostatic Classification of Flexible Medium Bulk Containers (FIBCs);
- Parts 4-5. Standard test methods for specific applications; characterization methods for electrostatic protection properties of human/shoe/ground systems;
- Parts 4-6. Standard test method wristbands for specific applications;
- Parts 4-8. Standard Test Methods for Electrostatic Discharge Shielding Bags in Specific Applications;
- Parts 4-9. Standard test methods for clothing in specific applications;
- Part 5-1. General requirements for electrostatic discharge protection of electronic devices;
- Part 5-4. Electrostatic Discharge (ESD) Protection Compliance Verification of Electronic Devices;
- Part 6-1. Static Electricity Control in Medical, Commercial and Public Places (Medical and Health) this document is modified to adopt IEC 61340-6-1:2018 "Electrostatics - Part 6-1. General requirements for electrostatic control facilities in medical settings".

The technical differences between this document and IEC 61340-6-1:2018, and the reasons therefor, are as follows.

---For national standards that do not specify dates in normative references, Chinese standards shall be used instead to adapt to my country's technical conditions.

The following editorial changes have been made to this document.

---Delete notes 1 and 2 in section 3.7;

---Delete the original Table Note a and the original Table Note b in Table 1 and change them to Table Note a, because packaging and other items also need to use conductive materials even when not grounded.

Materials or static dissipative materials;

---Delete the examples and notes regarding European standards related to personal protective equipment (see 5.6.2.1).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This document is under the jurisdiction of the National Electrostatic Standardization Technical Committee (SAC/TC597).

Introduction

GB/T 37977 "Electrostatics" is a fundamental standard for electrostatics, adopting all IEC 61340 series standards, and aims to define the modes of electrostatic effects.

Methods for testing the antistatic parameters of antistatic materials and products, standard test methods for specific applications, and electrostatic protection of electronic devices.

Including static electricity control in medical, commercial and public areas, etc. GB/T 37977 is proposed to consist of 17 parts.

---Part 1: Principles and Measurement of Electrostatic Phenomena. The aim is to systematically explain the fundamental principles of electrostatic phenomena and their possible formation.

Hazards, an overview of electrostatic measurement methods, and technical guidance are provided.

---Part 2-1. Test Methods for the Static Charge Dissipation Capacity of Materials and Products. The purpose is to specify test methods for testing insulation.

The ability of static charge dissipation in static dissipation materials and products.

---Part 2-3. Test methods for the resistance and resistivity of antistatic solid planar materials. The purpose is to specify test methods for measuring...

Test the resistance and resistivity of an antistatic solid planar material. The applicable resistance range is 10^4 ohm to 10^{12} ohm.

---Part 3-2. Simulation Methods for Electrostatic Effects. Electrostatic discharge test waveforms using a machine model (MM). The purpose is to specify the use of...

The basic requirements for simulating electrostatic discharge current waveforms in MM and for the equipment used to generate and verify these waveforms.

---Part 4-1. Standard Test Methods for Floor Coverings and Assembled Floors in Specific Applications. The purpose is to specify test...

Test methods are used to test the resistance of floor coverings and installed flooring, including resistance to ground, point-to-point resistance, and vertical resistance.

The applicable resistance measurement range is 104ohm to 101³ohm.

---Part 4-3.Standard Test Methods for Footwear in Specific Applications. The purpose is to specify test methods for testing antistatic footwear.

The resistance.

---Part 4-4.Standard Test Methods for Specific Applications - Electrostatic Classification of Flexible Medium Bulk Containers (FIBCs). The purpose is to...

Regulations specify flexible intermediate bulk containers (FIBCs) with a volume of 0.25 m³ to 3 m³ for use in hazardous explosive atmospheres.

Require.

---Parts 4-5.Standard Test Methods for Specific Applications. Characterization of Electrostatic Protection Properties of Human/Shoe/Ground Systems. The purpose is to...

The specified test method is used to evaluate the antistatic performance of human/shoe/ground systems.

---Parts 4-6.Standard Test Methods for Wristbands in Specific Applications. The aim is to clarify the electrical and mechanical properties of the wristband.

The requirements are as follows, along with experimental methods for testing these performance characteristics.

---Parts 4-8.Standard Test Methods for Electrostatic Discharge Shielding Bags in Specific Applications. The purpose is to provide evaluation methods for electrostatic discharge shielding bags.

Test methods for the performance of the bag covering.

---Parts 4-9.Standard Test Methods for Specific Applications of Clothing. The purpose is to specify test methods for testing antistatic clothing.

The installed resistor.

---Part 5-1.General Requirements for Electrostatic Discharge Protection of Electronic Devices. The purpose is to establish electrostatic discharge management and technical requirements to avoid or prevent electrostatic discharge.

Reduce damage to electronic products caused by electrostatic discharge.

---Part 5-2.User Guide for Electrostatic Discharge Protection of Electronic Devices. The purpose is to provide user guidance for developing, implementing, and monitoring devices that comply with [the relevant regulations/standards].