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

GB/T 46166-2025

Natural rubber latex cleanroom gloves

洁净室用天然胶乳手套

(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 modified to adopt ISO 20437:2017 "Specification for natural rubber latex gloves for cleanroom use".

This document has the following structural adjustments compared to ISO 20437:2017.

--- Added Appendix A and Appendix B.

The technical differences between this document and ISO 20437:2017 and their reasons are as follows.

--- Changed the scope of the statement (see Chapter 1) to conform to my country's national conditions;

--- Added normative reference to ISO 14644-1 (see A.2.2, A.2.5.3.3.1) to comply with the test for liquid agitation particle generation test Test conditions;

--- Deleted the normative reference IEST-RP-CC005.4.2013 (see Chapter 5 and Chapter 7 of ISO 20437:2017) and replaced Chapter 16 and Chapter 17 of IEST-RP-CC005.4.2013 are included as Appendix A, Appendix A of IEST-RP-CC005.4.2013 as Appendix B, it conforms to my country's national conditions and facilitates the use of the standard.

The following editorial changes have been made to this document.

--- To coordinate with the existing standard system, the name of the standard is changed to "Natural Rubber Latex Gloves for Clean Room Use".

1 Scope

This document specifies the technical requirements for gloves for use in ISO class 4, ISO class 5 and ISO class 6 cleanrooms and describes the corresponding test methods.

This document applies to the design, manufacture, inspection and acceptance of cleanroom gloves made from natural rubber latex (NRL).

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

ISO 14644-1 Cleanrooms and related controlled environments Part 1: Classification of air cleanliness by particle concentration (Note: GB/T 25915.1-2021 Cleanrooms and related controlled environments Part 1: Classification of air cleanliness by particle concentration (ISO 14644-1.

2015, MOD)

3 Terms and Definitions

The following terms and definitions apply to this document.

clean room

A dedicated room with floors and walls free of particle adsorption and release.

Note: The circulating air needs to be filtered through a high efficiency air filter (HEPA) or an ultra low particle air filter (ULPA). The main purpose is to minimize the impact on the work Contamination of the workbench, products being produced, and operators.

laminar airflow

uniform airflow (as opposed to turbulent airflow) within a cleanroom (3.1) that ensures that all detached particles (3.5) are effectively removed from the cleanroom 3.3 RO-DI treated water Water with very low particle (3.5) and ion content.

resistivity

The resistance of a particular material (rubber) to the flow of electric current.

Note: The unit of resistivity is Mohm, which is an indicator for measuring the purity of RO-DI treated water (3.3). The optimal purity is 18 Mohm.

particles

Solid, liquid, or both substances with a size usually between 1nm and 1mm.