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

GB/T 46936-2025

Medical absorbent cotton

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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. 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 National Medical Products Administration. This document is under the jurisdiction of the National Medical Protective Equipment Standardization Working Group (SAC/SWG30). This document was drafted by: Shandong Provincial Institute for Medical Device and Pharmaceutical Packaging Inspection and Xinjiang Uygur Autonomous Region Institute for Pharmaceutical Inspection. Beijing Institute for Medical Device Testing (Beijing Medical Biological Protective Equipment Testing and Research Center), Henan Tuoren Medical and Sanitary Materials Co., Ltd. Company, Zhende Medical Products Co., Ltd., Yadu Medical Technology (Henan) Co., Ltd., Winner Medical Products Co., Ltd., Aomei Medical Products Co., Ltd., Tianjin Medical Device Evaluation and Inspection Center. The main drafters of this document are. Wu Changyan, Sun Yupeng, Liu Bin, Pazilaiti Yakufu, Ma Heng, Wei Shangzhu, Zhang Jing, Shi Wei, and Chen Ming. Xu Hui, Zhu Xiangqin, Sun Guangyu, Cao Mengjie, He Qian.

Medical absorbent cotton comes in two types. sterile and non-sterile. Because medical absorbent cotton has high absorbency, it may be used to sterilize with ethylene oxide. Bacteria, through the adsorption of ethylene oxide, pose a significant risk to patients and medical staff; therefore, it is recommended to strengthen the control of ethylene oxide residue levels. For non-sterile medical absorbent cotton, the supplier provides bioburden data as the basis for determining sterilization parameters during sterilization by the medical institution. Medical absorbent cotton

1 Scope

GB/T 46936-2025 is the Chinese national standard covering surgical cotton wool - the

absorbency and the speed of wetting, the freedom from residual fat, bleach and foreign matter, the fluorescence that betrays optical brighteners, and the microbiological state. First edition, in force from 1 January 2027. It was issued on 31 December 2025 and takes effect on 1 January 2027, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 14233.1-2022 Medical infusion, transfusion and injection equipment test methods - Part

GB/T 19617 Test Method for Cotton Length - Hand-Torn Ruler Method

GB/T 19633.1 Terminally sterilized medical device packaging - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 foreign fiber Non-cotton fibers mixed into medical absorbent cotton.

Note. This includes chemical fibers, silk, hemp, etc.

4.1 Characteristics

4.1.1 Medical absorbent cotton should be white or off-white in appearance, free of leaves, fruit peels, seed coats or other impurities.

4.1.2 There should be a certain resistance when stretching; no dust should fall off when gently shaken.

4.2 Fiber Length The average length of medical absorbent cotton fibers should be no less than 10 mm.

4.3 Identification Medical absorbent cotton should meet the requirements for identification A, identification B, and identification C.

a) Identification A. Each visible fiber should consist of single cells with a maximum width of

40 μm , forming a thick, round-walled, flattened tubular shape. distortion;

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