

ICS 11.140
CCS C47

YY

**PHARMACEUTICAL INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YY 1887-2023

Medical positive pressure protective clothing

医用正压防护服

Issued on: June 20, 2023

Implemented on: July 1, 2025

Issued by: National Medical Products Administration

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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 be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed by the National Medical Products Administration. This document is under the jurisdiction of the technical unit responsible for standardization of medical biological protection products. Medical positive pressure protective clothing

1 Scope

YY 1887 is the mandatory Chinese standard for medical positive pressure protective clothing, the fully enclosed suit fed with filtered air at above ambient pressure so that any leak pushes outward rather than drawing contamination in. It is the highest level of personal protection used in healthcare, worn for high-consequence pathogens and in biosafety settings. The document sets the requirements such a suit has to meet and the test methods that verify them, covering the integrity of the enclosure, the air supply and the pressure it maintains, the visibility and mobility the wearer retains, and the procedures for putting it on and taking it off without self-contamination. Being a YY standard without the /T suffix, compliance is compulsory in China. The 2023 edition took effect in July 2025.

This document specifies the structural composition, requirements, testing methods, markings, instructions for use, packaging and storage of medical positive pressure protective clothing. This document is applicable to scenarios such as medical work environments where the risk of exposure to pathogenic microorganism aerosols has been assessed, and is used to filter airborne Medical positive pressure protective clothing that contains microbial particles and blocks droplets, blood and other pollutants. This document does not apply to medical positive pressure protective clothing whose clothing part is reusable. This document does not apply to personal protective equipment in biosafety level 4 laboratories or equivalent risk operating environments. This document does not apply to

personal protective equipment in environments such as dust, chemical gases, combustion, explosion, and lack of oxygen.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB/T 2410-2008 Determination of transmittance and haze of transparent plastics

GB 2626-2019 Respiratory protection self-priming filter-type anti-particulate respirator

GB/T 3785.1-2010 Electroacoustic sound level meter Part

3 Determination of breaking strength and elongation at break (strip method)

GB 30864-2014 Respiratory protection powered air purifying respirator

YY/T 0689-2008 Blood and body fluid protective equipment protective clothing materials anti-penetration performance test of blood-borne pathogens Phi- X174 bacteriophage test method

YY/T 0700-2008 Blood and body fluid protection equipment and protective clothing materials anti-blood and body fluid penetration performance test synthetic blood test method

YY/T 0866 Test method for total leakage rate of medical protective masks

YY 9706.102 Medical electrical equipment Part 1-

2.General requirements for basic safety and basic performance Parallel standards.
Electromagnetic and Capacity requirements and testing

10 Irritation and skin sensitization tests

GB/T 20655 Determination of mechanical properties of protective clothing and puncture resistance

GB/T 21294-2014 Testing methods for physical and chemical properties of clothing

GB/T 24218.3 Test methods for textile nonwovens Part