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

GB 21976.8-2025

**Escape apparatus for building fire - Part 8: Chemical oxygen
respiratory protective devices for self-rescue from fire**

建筑火灾逃生避难器材 第8部分：化学氧消防自救呼吸器

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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 8 of GB 21976 "Escape and Refuge Equipment for Building Fires". GB 21976 has already published the following parts.

1. Equipment Guide;

2. Escape Descent Device;

3. Escape Ladders;

5. Emergency Escape Devices;

7. Filter-type Fire Self-Rescue Breathing Apparatus;

8. Chemical Oxygen Firefighting Self-Rescue Breathing Device 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 and is under the jurisdiction of the State Fire and Rescue Administration.

Building fire escape and refuge equipment refers to auxiliary escape equipment used by people in distress to escape from a fire scene during a building fire. GB 21976 "Escape and Refuge Equipment for Building Fires" is a fundamental and general standard guiding the design, manufacture, and inspection of escape and refuge equipment for building fires in my country. Usability standards. According to the main categories of building fire escape and refuge equipment, GB 21976 includes, but is not limited to, the following parts.

1. Equipment Guidelines. The purpose is to regulate the provision, installation, inspection,

replacement, and disposal of fire escape and refuge equipment in buildings. Requirements in this regard.

2.Escape Descenders. The purpose is to specify the technical requirements for escape descent devices.

3.Escape Ladders. The purpose is to specify the technical requirements for escape ladders.

4.Escape Slides. The purpose is to specify the technical requirements for escape slides.

5.Emergency Escape Devices. The purpose is to specify the technical requirements for emergency escape devices.

1 Scope

GB 21976.8-2025 is the Chinese national standard on escape apparatus for building fire - part 8: chemical oxygen respiratory protective devices for self-rescue from fire, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 January 2027. Classification: ICS 13.220.10, CCS C 85. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document defines the terminology related to chemical oxygen fire-fighting self-rescue breathing apparatus, specifies the models and specifications, technical requirements, inspection rules, and labeling. The requirements for labeling, packaging, transportation, and storage are described, along with the corresponding test methods. This document applies to the design, manufacture, and inspection of chemical oxygen fire-fighting self-rescue breathing apparatus (hereinafter referred to as "breathing apparatus").

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 2626 Respiratory Protection - Self-priming Filtering Respirator for Particulate Matter

GB 2890 Respiratory Protective Self-priming Filtering Gas Mask

GB/T 10125 Corrosion test under artificial atmosphere - Salt spray test

GB 21976.7 Building Fire Escape and Refuge Equipment Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 It isolates the human respiratory system from the atmospheric environment and uses oxygen generated by chemical oxygen-generating agents to provide oxygen for people to escape in the event of a fire when there is a lack of oxygen. Respiratory protection equipment used.

3.2 Wearing mass The quality of the chemical oxygen fire self-rescue respirator when worn.

3.3 Inhalation resistance The instantaneous pressure difference between the air intake of the test apparatus and the ambient atmosphere during air intake.

3.4 Expiration resistance The instantaneous pressure difference between the exhalation port of the test device and the ambient atmosphere during exhalation.

7 Filter-type Fire Self-Rescue Breathing Apparatus

GB 24502 Self-rescue devices for coal mines

GB/T 32166.2 Personal Protective Equipment - Eye and Face Protection; Occupational Eye and Face Protection - Part

2.Measurement Methods MT/T 427 Technical Conditions for Potassium Superoxide Flake Oxygen Generator