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

GA 411-2003

**Chemical oxygen respirator for fire self-rescue
(English Translation)**

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Foreword

5.1 and 5.4 of this standard are recommended provisions, and the rest are mandatory provisions.

This standard is not equivalent to the European Committee for Standardization CEN approved EN 401:1992 "self-rescue respiratory protection device; regeneration device; chemistry Oxygen (KO₂) self-rescuer; requirements, tests, markings (English version), the main differences are as follows.

- Modified some formatting formats according to Chinese habits;
- Change some expressions applicable to international standards to those applicable to Chinese standards;
- Standard English names are not the same;
- The type has been reduced;
- Structural requirements are limited;
- Increased radiant heat penetration resistance of the protective hood material;
- The quality of wearing has been reduced;
- Cancel the sealing performance of the air bag and the canister.

Appendix A of this standard is a normative appendix.

This standard was proposed by the Fire Department of the Ministry of Public Security.

This standard is under the jurisdiction of the Fifth Technical Committee of the National Fire Protection Standardization Technical Committee.

This standard was drafted. Shanghai Fire Research Institute of the Ministry of Public Security.

1 Scope

This standard specifies the type and type, technical requirements, test methods and inspections of chemical oxygen fire-fighting self-rescue breathing apparatus (hereinafter referred to as respirator).

Requirements for rules, signs, packaging, transportation, storage, etc.

This standard is applicable to the one-time use of alkali metal superoxide as oxygen generator for the purpose of escape in the event of fire.

Respirator.

This standard does not apply to work-type and ambulance-type respirators, nor to submersible respirators.

The basic design dimensions of the respirator specified in this standard are for adults.

2 Normative references

The terms in the following documents become the terms of this standard by reference to this standard. All dated references, followed by all Modifications (not including errata content) or revisions do not apply to this standard, however, parties to agreements based on this standard are encouraged to study it is possible to use the latest version of these files? For undated references, the latest edition applies to this standard.

GB/T 2891-1995 Filtered gas mask mask performance test method GB/T 2892-1995 Filtered gas mask filter tank performance test method GA 209-1999 Fire-fighting self-rescue breathing apparatus MT425-1995 Isolated chemical oxygen self-rescuer

3 Terms and definitions

The following terms and definitions apply to this standard.

Separating human respiratory organs from the atmosphere, using oxygen generated by the oxygen of students, for people to escape in the event of a fire in the absence of oxygen
Respirator.

The respirator ensures the normal breathing performance of the human body during the protection time (such as inspiratory components, inhalation temperature, respiratory resistance, etc.).

The respirator can guarantee the normal breathing time of the human body; that is, when testing the protective performance of the respirator, the test performance index does not reach the standard specifies the instantaneous time.

The instantaneous pressure difference between the suction port of the test device and the

air bag when inhaling the protective performance of the respirator.

When testing the protective performance of the respirator, the instantaneous pressure difference between the exhalation port of the test device and the air bag is exhaled.