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

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**Protective clothing -- General requirements
(English Translation)**

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1 Scope

This Standard specifies the general requirements and recommendations for ergonomics, aging, size, and marking of protective clothing; and specifies the relevant information that manufacturers shall provide.

This Standard is applicable to the general requirements for protective clothing.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 8629 Textiles-Domestic Washing and Drying Procedures for Textile Testing (GB/T 8629-2001, eqv ISO 6330:2000)

GB/T 8630 Textiles - Determination of Dimensional Change in Washing and Drying (GB/T 8630-2002, ISO 5007:1984, MOD)

GB/T 8685 Care Labelling Code of Textiles and Apparel (GB/T 8685-1988, neq ISO 3758)

GB/T 13640-1992 Size Designation of Protective Clothing

ISO 105 (all parts) Textiles - Test for Color Fastness

NOTE: See Appendix A for China's adoption of standard catalogue of ISO 105 serial standards.

ISO 3175:1995 Textiles - Evaluation of Stability to Machine Dry-Cleaning.

3 Terms and Definitions

For the purpose of this Standard, the following terms and definitions apply.

there is no inevitable relationship between them and the actual conditions in the workplace. Therefore, when selecting protective clothing, on the basis of evaluating the wearer's operating conditions and content, combine the involved risk level, and the performance data of the protective clothing provided by the manufacturer to prevent hazards.

4 Ergonomics

Protective clothing shall be designed and produced according to the following requirements:

- a) The materials and components of the protective clothing shall ensure that they do not adversely affect the wearer.
- b) While meeting the protection requirements, the protection clothing should make the wearer as comfortable as possible.
- c) Where the protective clothing comes into contact with the wearer's body, excessive irritations or injuries caused by rough, sharp angles and protruding parts shall be avoided.
- d) Considering the influence of external factors and the possible movement and posture of the wearer during work, the design of the protective clothing shall facilitate the correct position of the wearing and ensure that the position is maintained during the intended use. Therefore, appropriate methods should be adopted to adapt the protective clothing to the shape of the wearer, such as:
suitable adjustment structure and suitable size range.
- e) Without affecting the design strength and effect, try to reduce the mass of protective clothing.
- f) The design of protective clothing should consider forming a comprehensive protective integrity with other series of protective clothing or equipment after wearing. The connection between protective clothing and other protective equipment, such as the connection from sleeves to gloves, trousers to shoes, hood to respirator, should provide the same level of protection.

If the protective clothing permits humid and heat resistance, the humid and heat resistance shall be small. The test method for humid and heat resistance shall be specified in specific standards.

NOTE 1: The manufacturer shall perform the test in accordance with the test methods specified in national standards or international standards.

NOTE 2: Protective clothing cannot be breathable due to protection requirements, and other

6 Dimensioning

Protective clothing shall be dimensioned according to GB/T 13640-1992.

7.1 General marks

Every protective clothing should be marked.

The marks shall:

- Attached to the product or product label;
- Fixed in a clear and easy to read place;
- Can withstand the appropriate number of cleanings.

If the mark on the product shall reduce the performance level of the protective clothing and is not conducive to storage or hinder the application; then the mark shall be set on the smallest commodity packaging unit.

The marks and graphic symbols should be simple and easy to understand; and use easy-to-read numbers.

NOTE: Try not to use the number of less than 2mm; the graphic symbol is no less than 10 mm (including the border). Numbers and graphic symbols should use a black or white background.

7.2 Specific marks

The mark shall include the following information:

- a) The manufacturer's name, trademark or other logos indicating the manufacturer or distributor.
- b) The type of product or basic material; and the product name or code.
- c) Dimensioning as specified in Clause 6.
- d) The number of implementation standard.
- e) Graphical symbols, if necessary, may include performance levels.

When graphical symbols are used to mark hazard types or use functions, they shall be used in accordance with the provisions of marks in specific standards

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