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Fit Test Panels for Self-inhalation Air-purifying

Respiratory Protective Equipment

自吸过滤式呼吸防护用品适合性检验颜面分栏

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Fit Test Panels for Self-inhalation Air-purifying Respiratory Protective Equipment

1 Scope

This Standard stipulates the fit test panels for the design and inspection of self-inhalation air-purifying respiratory protective equipment.

This Standard is applicable to the design, selection and inspection of self-inhalation air-purifying respiratory protective equipment.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 5703 *Basic Human Body Measurements for Technological Design*

GB/T 18664-2002 *Selection, Use and Maintenance of Respiratory Protective Equipment*

3 Terms and Definitions

The following terms and definitions are applicable to this document.

3.1 Self-inhalation Air-purifying Respiratory Protective Equipment

Self-inhalation air-purifying respiratory protective equipment refers to air-purifying respiratory protective article that overcomes resistance of components through the wearer's respiration.

3.2 Bizygomatic Breadth

Bizygomatic breadth refers to the straight-line distance between the left and the right zygomatic points.

3.3 Face Length / Nasion-menton

Face length / nasion-menton refers to the distance between the nasion and the chin point.

3.4 Fit Test

Fit test refers to the method for testing the suitability of a certain type of sealing respiratory protective equipment for specific users.

3.5 Face-seal Check

Face-seal check refers to a method of tightness inspection performed by the user of respiratory protective equipment to ensure that sealing face mask is worn in the correct position.

4 Binary Fit Test Panel for Adults

4.1 Principle of Fit Test Panel

The indicators of fit test panel are face length / nasion-menton and bizygomatic breadth. The measurement of face length / nasion-menton and bizygomatic breadth is shown in GB/T 5703. In accordance with the two indicators: face length / nasion-menton and bizygomatic breadth of adults, divide them into 10 facial types, number them by #1 ~ #10. The coverage of the fit test panel is above 95%, and the coverage of the various facial types is larger than 2%.

4.2 Range of Facial Types

In terms of head-face binary fit test panel, the range of bizygomatic breadth is 127.5 mm ~ 158.5 mm; the range of face length / nasion-menton is 96.5 mm ~ 132.5 mm.

4.3 Method of Fit Test Panel

Binary fit test panel for adults complies with the actually measured face length / nasion-menton and bizygomatic breadth. See Figure 1 for facial types.

4.4 Application of Fit Test Panel

When performing fitness test of self-inhalation air-purifying respiratory protective equipment, select testers that meet the various facial types in the sub-column of Figure 1. Please refer to Appendix A for the method of application. Individuals may base on the facial types to select a corresponding model of self-inhalation air-purifying respiratory protective equipment. Before use, the wear tightness inspection shall be performed, then, the fitness test shall be conducted, so as to guarantee the effect of self-inhalation air-purifying respiratory protective equipment.

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