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Respirator paper

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Respirator paper

1 Scope

This Standard specifies product classification, requirements, test methods, inspection rules as well as marks, packaging, transportation and storage of respirator paper.

This Standard is applicable to processing paper respirator paper.

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 450, *Paper and board - Sampling for testing and identification of machine and cross direction, wire side and felt side*

GB/T 451.2, *Paper and board - Determination of grammage*

GB/T 451.3, *Paper and board - Determination of thickness*

GB/T 462, *Paper, board and pulp - Determination of moisture content of analytical sample*

GB/T 465.2, *Paper and board - Determination of tensile strength after immersion in water*

GB/T 1541, *Paper and board - Determination of dirt*

GB/T 2828.1, *Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

GB/T 7974, *Paper, board and pulps - Measurement of diffuse blue reflectance factor - D65 brightness (Diff/Geometry, Outdoor daylight conditions)*

GB/T 10342, *Paper - Package and mark*

GB/T 10739, *Paper, board and pulps - STANDARD atmosphere for*

tight. The core shall not be loose.

4.4 The joints of each roll of paper shall not exceed three. The joint shall be pasted firmly and marked.

4.5 The hygienic indicator shall meet the hygienic requirements of ordinary respirators in GB 15979. Sampling for continuous production shall be no less than once a month.

4.6 Raw materials shall be non-toxic, harmless and pollution-free. Prohibit the use of discarded hygiene products as raw materials or semi-finished products.

5 Test methods

5.1 The sampling, processing and inspection of samples shall be carried out in accordance with the provisions of GB/T 450 and GB/T 10739.

5.2 Quantitation shall be determined according to GB/T 451.2.

5.3 After determining the layer thickness according to GB/T 451.3, the tightness is calculated.

5.4 The tensile strength is determined according to GB/T 12914. Use constant speed drawing method to determine in arbitration.

5.5 The air permeability is determined according to Annex A.

5.6 The wet tensile strength is determined according to GB/T 465.2. Immersion time is 10min. Use constant speed drawing method to determine in arbitration.

5.7 The brightness is determined according to GB/T 7974.

5.8 The dustiness is determined according to GB/T 1541.

5.9 Fluorescent substance inspection: Randomly take 5 samples of 100cm² from the sample. Place under 365nm and 254nm UV lamps for inspection. There shall be no fluorescence reaction in each sample.

5.10 The delivery moisture is determined according to GB/T 462.

5.11 Appearance quality is visually inspected.

6 Inspection rules

6.1 One delivery shall be a lot but not more than 10t.

A.3 Devices

A.3.1 The air permeability tester of respirator paper shall meet the following conditions:

- a) Sample holder: The test area is 2cm^2 round sample holder. When clamping the sample, the sample holder shall avoid the influence of air leakage on the measurement result. Air leakage shall not exceed 1% of the measured airflow.
- b) Airflow device: A stable and adjustable pressure difference air flow shall be produced between the two sides of the sample.
- c) Sensor: Used to measure the air flow through the sample, the relative error shall not exceed 2% of the measured value.
- d) Display device: Used to display or print the measurement results.

A.3.2 Pressure gauge: Measuring range is $0.25\text{kPa} \sim 2.5\text{kPa}$ and the accuracy is level I.

A.3.3 Standard flow plate: Used to calibrate the air flow rate through the probe under a certain pressure difference. The accuracy is 0.2%.

A.4 Sample preparation

Conduct sampling according to GB/T 450. Randomly extract samples of which the total test area is not less than $12 \times 2 \text{ cm}^2 = 24 \text{ cm}^2$ from the taken samples as specimens for air permeability determination.

A.5 Steps

A.5.1 Turn on the power and keep the instrument in a stable state.

A.5.2 Turn on the gas source to stabilize the instrument pressure at 0.3MPa .

A.5.3 Turn on the pressure gauge and calibrate the display pressure of the instrument to make it consistent with the pressure gauge.

A.5.4 Use a standard flow plate (A.3.3) to calibrate the air flow rate through the probe.

A.5.5 Take a specimen and insert it into the sample holder to make the air flow through the specimen consistent. Measure the gas flow q_1 and q_2 through the specimen under the pressure difference of 0.25kPa and $1,000\text{kPa}$ respectively, in cm^3/min .

A.5.6 Take another specimen and repeat the steps in A.5.5.

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