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

GB/T 22819-2008

High permeable paper - Determination of air permeability

高透气纸张透气性的测定

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Foreword

The standards in the original light industry standard QB/T 1461-1992 "high air permeability assay paper" on. Appendix A of this standard is an informative annex. The standard proposed by China National Light Industry Council. This standard by the National Standardization Technical Committee of the paper industry. This standard was drafted. China Pulp and Paper Research Institute, China Paper Association Professional Committee of Standardization. The main drafters of this standard. Qiuwen Lun. High permeability paper Determination of air permeability

1 Scope

GB/T 22819-2008 is the Chinese national standard on high permeable paper - determination of air permeability, in the field of paper technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 December 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 September 2009. Classification: ICS 85.010, CCS Y30. 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 standard specifies the method for determination of high air permeability of the paper. This standard applies to air permeability of greater than $1 \times 10^2 \mu\text{m}/(\text{Pa} \cdot \text{s})$.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For

undated reference documents, the latest versions apply to this standard.

GB/T 450 and take samples to an aspect of paper and paperboard samples, positive and negative determination (GB/T 450-2008, ISO 186. 2002, MOD)

GB/T 10739 paper, paperboard and pulp sample processing and testing standard atmospheric conditions (GB/T 10739-2002, eqv ISO 187. 1990)

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 When a pressure differential exists on both sides of the paper, the performance of the air through the paper.

3.2 Under the conditions specified in units of time and a predetermined pressure, the average air flow through the unit area of the paper that, in cubic centimeters per Cm sec [$\text{cm}^3/(\text{cm}^2 \cdot \text{s})$] FIG.

3.3 Under the conditions specified in units of pressure per unit time and the average air flow rate per unit area of the paper adopted in microns per Paz Cards second [$\mu\text{m}/(\text{Pa} \cdot \text{s})$] represent [$1\text{mL}/(\text{m}^2 \cdot \text{Pa} \cdot \text{s})$]. Principle

$\text{s}) = 1\mu\text{m}/(\text{Pa} \cdot \text{s})$. Principle

4 According to methods and test parameters specified in the specimen holder in the instrument ventilation air intakes, and then adjust the fan speed, so that both sides reach a sample Predetermined pressure, measured air permeability of the paper according to size orifice size and pressure on both sides.

5 Equipment

5.1 Measurement of air permeability of the instrument shown in FIG. 1, which mainly consists of from

5.6 part specified.

5.2 specimen clamping devices. make the specimen deformation, the edge does not leak. This means to ensure that $(38.5 \pm 0.2) \text{ cm}^2$ test area.

5.3 Fan. variable speed, air can be sucked so that both sides of the paper to the desired pressure.

5.4 inclined manometer and a vertical manometer. for measuring differential pressure. Inclined gauge range is $0 \sim 245\text{Pa}$ ($0 \sim 25\text{mm}$ water column), vertical Straight gauge range is $0 \sim 3922\text{Pa}$ ($0 \sim 400\text{mm}$ water column).

5.5 Determination of air flow means and a calibrated orifice. its flow deviation shall not

exceed $\pm 2\%$.

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