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

GB/T 22837-2008

**Paper and board -- Determination of surface strength (wax
method)**

纸和纸板 表面强度的测定(蜡棒法)

(English Translation)

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Foreword

The revised standard used by the US Pulp and Paper Association standards TAPPIT459om-2003 "paper surface strength (wax sticks fluff test)".

This standard compared with TAPPIT459om-2003, the main technical differences are as follows.

--- Adds a chapter principle;

--- Increasing the wax sticks schematic site name.

This standards based on "paper and paperboard - Determination of surface strength (wax Bar Method)," the former light industry standard QB/T 2594-2003 on.

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, the national paper quality supervision and inspection center, China Paper Association Professional Committee of Standardization Members will.

1 Scope

This standard specifies the test method standard special wax sticks Paper and cardboard surface strength.

This standard applies to coated and uncoated paper and paperboard.

This standard does not apply to high bulk paper and coatings containing thermoplastic resin coated paper.

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.

To determine the surface strength of paper and cardboard. (fluff, hair loss, dusting, such as rupture), destruction by wax sticks adhesion to the surface of the specimen the critical wax sticks intensity level number (A) shows the results.

Adhesion wax sticks did not produce the maximum damage on the order paper grade numbers.

Principle 4

After heating the wax sticks in contact with the test specimen surface, vertical uprooted After cooling, relying on the role of the surface of the specimen adhesion damage occurs to the Pro Boundary wax sticks intensity level numbers to show the results.

5.1 Heating device

Alcohol lamp.

5.2 Board

Wood length x width x thickness of 90mm x 40mm x 10mm, intermediate board having a pore diameter of 30mm round hole.

Workbench 5.3

Work surfaces should be hard, smooth and does not conduct heat. Countertop material should be wood, glass, metal or stone and other materials are not easy to rapid cooling

should as countertops.

5.4 Wax sticks material

Hard resin material is free of wax sticks fats and oils, waxes great level numbers are 4A, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A,