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JJF

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

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**Calibration Specification for Pendulum Tear Instruments
(English Translation)**

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Introduction

This specification is prepared according to JJF 1071-2010 "National Metrological Calibration Rules".

This specification in the development process with reference to the JJF (textile) 049-2012 "pendulum fabric tearing instrument calibration norms" JJG (light industry) 63-2000 "paper and cardboard tearing instrument"; quoted GB/T 455-2002 "paper and cardboard tear Determination of the degree of "GB/T 3917.1-2009" Tear properties of textile fabrics Part 1. Impact pendulum tearing Determination of tear strength ", GB/T 16578.2-2009" Determination of tear resistance of plastic films and sheets Section 2 Part; Elmendorf method ", industry standard HG/T 2581.2-2009" rubber or plastic coating Determination of tear resistance of woven fabrics - Part 2. Impact pendulum method and ISO 1974-2012 paper tear (Paper-Determination of tearing resistance-Elmendorf method), & It; RTI ID = 0.0 & gt;

American pulp and paper industry technical association TAPPI T414-2012 "paper tear" (Internal tearing re-standards and symbols, and related technical requirements, technical indicators and test methods.

This specification gives calibration conditions, calibration items and calibration methods for the measurement characteristics of the pendulum tear meter.

This specification is the first release.

Calibration standard for pendulum tearing instrument

1 Scope

This specification applies to the potential energy method pendulum tearing instrument (hereinafter referred to as tearing instrument) calibration.

2 reference file

This specification refers to the following documents.

Paper and board - Determination of tearing degree GB/T 455-2002 Textiles - Tearing properties of fabrics - Part 1. Impact pendulum method for tearing Determination Plastics - Film and sheet - Determination of tear resistance - Part 2.

Mendorf (Elmendorf) method Rubber and plastics - Determination of tear resistance of coated fabrics - Part 2. Determination of tear resistance.

Hit pendulum method

ISO 1974-2012 Paper Teariness Determination Paper-Determination of tearing resistance Elmendorf method TAPPI T414-2012 paper tear (Internal tearing resistance of paper) for dated references, only the dated edition applies to this specification; references

that are not dated , The latest version (including all modifications) applies to this specification.

3 terms and units of measurement 3.1 terminology Tearing force Under the specified conditions, the average force required to continue tearing the specimen along the pre-cut, that is, the power consumed by tearing the specimen, the ratio of the tear length of the specimen. The unit is Newton (N).

3.1.2 Tearing degree tearing resistance Tearing the average force required for each pre-cut specimen, that is, tearing the tear strength of the pre-cut specimen and tearing it at the same time Number of sample layers. The unit is Newton (N).

3.1.3 tear length length of tear Specified conditions in the specimen side of the incision, the incision terminal to the other side of the distance. The unit is in millimeters (mm).

3.1.4 pendulum capacity tear capacity of pendulum the rated tearing force corresponding to each pendulum, that is, the maximum tearing force given by the manufacturer. The unit is Newton (N).

3.1.5 Tear initial angle initial angle of tear in the initial position, the fixture clamps the seam along the center line of the pendulum axis and the plane between the plane of the center line of the pendulum axis Angle. The unit is degrees (°).