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

GB/T 22906.9-2008

Testing of cores -- Part 9: Determination of flat crush resistance

纸芯的测定 第9部分：平压强度的测定

(English Translation)

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Foreword

GB/T 22906 "paper core measurement" is divided into nine sections.

- Part 1. sample taken;
- Part 2. temperature and humidity of the treated samples;
- Part 3. Determination of moisture content (oven drying method);
- Part 4. Determination of dimensions;
- Part 5. Determination of characteristics of concentric rotation;
- Part 6. Determination of flexural strength (three-point method);
- Part 7. Determination of modulus of elasticity (three-point method);
- Part 8. Determination of natural frequency and the elastic modulus (experimental modal analysis);
- Part 9. Determination of flat crush strength.

This section GB/T Part of 922,906.

The partial modification of the use of ISO 11093-9:2006 "Paper and board Determination - Part 9. Determination of flat crush resistance." this part of ISO 11093-9. Compared to 2006, the main differences are as follows.

--- International Standard ISO document standard will be referenced in normative references converted to its corresponding national standard, GB /22906.2 Zhixin Determination T - Part 2. temperature and humidity of the treated samples (GB/T

22906.2-2008, ISO 11093-2:1994, MOD);

--- Note 3.1 will be incorporated into the definition of the flat crush resistance;

--- The 8.2 and 8.1 (1) and (2) merge, modify the formula (1) of this Part.

This part is proposed by the China National Light Industry Council.

This part of the National Standardization Technical Committee under the jurisdiction of the paper industry.

Drafting this Part. Exit Inspection and Quarantine Technology Center of Guangdong, China Pulp and Paper Research Institute, China Paper Association Standardization special Industry Committee.

1 Scope

This section GB/T 22906 specifies the determination method Zhixin flat crush strength.

This section applies to all the core.

2 Normative references

The following documents contain provisions which, through reference GB/T 22906 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

22906.1 paper core measurement GB/T Part 1. Sample taken (GB/T 22906.1-2008, ISO 11093-1:1994, IDT) GB /22906.2 Zhixin Determination T - Part 2. temperature and humidity of the treated samples (GB/T 22906.2-2008, ISO 11093-2.

1994, MOD)

3 Terms and Definitions

The following terms and definitions apply to this part of the GB/T 22906 of.

Upload the sample from a direction perpendicular to the axis of the specimen pressed until the first reaches maximum crushing force or load deformation curve reaches a stable state Dutch units of kN per meter (kN/m).

Principle 4

The sample was placed on a plane between two parallel metal plates placed so that the axis of the sample with a pressure of the metal plate is located parallel to a constant speed

Rate applying pressure, when the pressure for the first time when the maximum pressure is stopped.

5.1 Compression testing machine

Compression testing machines on a metal plate and a lower metal plate should be smooth, the determination should maintain the level of state and can only move up and down in the vertical direction.

The moving speed of the metal sheet should be controlled under the pressurized state the actual speed of the metal plate. When using a minimum pressure load, compression testing machine should reach to $\pm 1\%$ accuracy. Compression testing machine should be set to crush when the pressure drops automatically stop 30N or decreased 3%. Throughout Determination , The metal plate should be able to maintain the 0.2% parallelism.

5.2 CD-like device

Cut out of the sample and the angle between the axis should be $90^\circ \pm 1^\circ$, the sample section should be neat, should have no debris, but there should be no change shape. In practice, it is recommended to use saws.

6.1 Sampling

According to GB/T 22906.1 sampled.