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

**GB/T 22906.5-2008**

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**Testing of cores -- Part 5: Determination of characteristics of  
concentric rotation**

纸芯的测定 第5部分：同轴旋转特性的测定

**(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 522,906.

The partial modification of the use of ISO 11093-5:1994 "Paper and board Determination - Part 5. Determination of characteristics of concentric rotation." this part of ISO 11093-5. compared to 1994, 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).

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

This part of the paper by the National Standardization Technical Committee (SAC/TC141) centralized.

This section drafted by. China Pulp and Paper Research Institute, China Paper Association Professional Committee of Standardization.

## 1 Scope

This section GB/T 22906 specifies the determination method Zhixin coaxial rotation characteristics.

This section applies to the determination of the PM Zhixin rotary coaxial rotation characteristics, said core should meet the following criteria.

- Minimum wall thickness. 5mm;
- Minimum outer diameter. 60mm;
- Maximum length. 3200mm.

## 2 Normative references

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

### Principle 3

With between three points on a plane perpendicular to the axis of the specimen was measured, in which two points have been determined in advance, and the other points along the measuring direction mobile.

With five points between the plane perpendicular to the axis of the specimen was measured, four points have been determined in advance, that is perpendicular to the axis of the two samples Plane twenty-two be determined at another point in a plane perpendicular to the axis of the specimen was measured along the direction of movement.

## 4 Instrument

Test equipment (Figure 1) consists of a holder (1) and carry out its support of two movable roller frame (2). Each roller frame and by two support rollers (3), with the spacing between

these two support rollers is adjustable. Diameter of the support roller is  $85\text{mm} \pm 1\text{mm}$ , to support wide roll  $20\text{mm} \pm 1\text{mm}$ . For example, you can choose 6209 supporting roller bearings.

With two measuring sensors were measured. Wherein a sensor (4) mounted above a roller frame, in addition to a sensor (5) Security Mounted on the carriage, the sensor can be moved between two roller frame. The minimum scale sensor dial is  $0.01\text{mm}$ , and accurate to  $0.015\text{mm}$ , the measurement range is  $50\text{mm}$ , the pressure sensor measuring approximately  $1.2\text{N}$ , the minimum scale spacing is  $0.01\text{mm}$ . Sensor the probe should be  $10\text{mm}$  diameter circular plane.