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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GB/T 7979-2005

Replacing GB/T 7979-1987

Pulps - Determination of dichloromethane soluble matter

纸浆 二氯甲烷抽取物的测定

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Foreword

This Standard is the revision to GB/T 7979-1987 "Pulps - Determination of dichloromethane soluble matter".

This Standard replaces GB/T 7979-1987.

Compared with GB/T 7979-1987, the main changes are as follows:

- Add the contents of the scope (see Chapter 1);
- Add the contents of normative references (see Chapter 2);
- Modify the contents of the test procedure (see Chapter 7);
- Add the contents of the test report (see Chapter 9).

Appendix A of this Standard is informative.

This Standard was proposed by China National Light Industry Council.

This Standard shall be under the jurisdiction of the National Standardization Technical Committee of Paper-making Industry (SAC/TC141).

This Standard was drafted by Tianjin Paper-Making Technology Research Institute of Light Industry.

Main drafters of this Standard: Nie Junhong.

This Standard replaces the previous version as follows:

- GB/T 7979-1987.

This Standard shall be responsibly interpreted by National Standardization Technical Committee of the National Paper Industry.

Pulps - Determination of dichloromethane soluble matter

1 Scope

This Standard specifies the method for the determination of the components which can be dissolved in dichloromethane in pulp.

This method is applicable to various chemical pulp and semi-chemical pulp.

2 Normative references

The following documents contain the provisions which, through reference in this Standard, become the provisions of this Standard. For the dated references, their subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 740 Pulps - Sampling for testing (GB/T 740-2003, ISO 7213:1991, IDT)

GB/T 741 Pulps - Determination of moisture content (GB/T 741-2003, ISO 638:1989, MOD)

3 Principle

In the Soxhlet extractor, extract the sample of the pulp with dichloromethane. After at least 24 cycles of extraction, evaporate the solvent; and under the temperature of $105^{\circ}\text{C} \pm 2^{\circ}\text{C}$, dry and extract the residue for no more than 16 hours; and then weigh it. Through the ratio OF mass of the dichloromethane soluble matter AND absolute-dry mass of the sample, obtain the content of the dichloromethane soluble matter.

Warning! The dichloromethane extraction method is better than diethyl-ether extraction method. Because, if diethyl-ether is acted as the solvent, there exists the danger of fire or explosion.

4 Reagents

Analytical reagents shall be used in the analysis unless otherwise stated.

Dichloromethane: content is 98% ~ 100%; dry and solid matters shall be less than 5mg/L; boiling point shall be 39°C ~ 41°C.

If adopting the general commercial product, it shall be redistilled; collect the distillate between 38°C ~ 41°C; and store it in the brown glass bottle. This distillate shall be neutral.

Warning! Due to the toxic nature of this solvent, therefore, appropriate ventilation shall be paid attention to.

5 Instruments

General laboratory equipment and

- a) Soxhlet extractor: it is made entirely of glass; it is consisted of the ground condenser, the ground extractor and ground flat-bottomed flask. The capacity of the flat-bottomed flask should be 150mL; the capacity of the extractor should be 60mL ~ 120mL;
- b) Drying oven: it can maintain the air temperature at 105°C ± 2°C, and it can be properly ventilated;
- c) Balance: the sensitivity is 0.0001g;
- d) Constant-temperature water bath.

6 Sample preparation

Perform sampling according to GB/T 740; tear the pulp sample into the sample which is less than 15mm × 15mm; and place the sample in the ground wide-mouth bottle for standby application.

7 Test procedure

Weigh two-portion samples of about 10g (The accuracy is 0.0001g) to perform parallel determination; at the same time, determine the moisture content according to GB/T 741.

Firstly, PUT a small mass of absorbent cotton which has been previously extracted with the dichloromethane solvent INTO the drain pipe of the Soxhlet extractor; then place the sample in the extractor; CONNECT the flat-bottomed flask which has been dried at 105°C ± 2°C and cooled to constant weight TO the extractor; then PLACE the dichloromethane of which the volume is equal to 1.5 times volume of the extractor IN the flat-bottomed flask; connect the condenser and start to extract.

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