

ICS 85.040

CCS Y 31



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

GB/T 29287-2012

Pulps -- Laboratory beating -- PFI mill method

Issued on: December 31, 2012

Implemented on: September 1, 2013

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

Table of Contents

Foreword

1 Scope

2 Normative references

4 Test Instruments and reagents

4.1 PFI mill. See Appendix A.

4.3 Balance. indexing is 0.1g.

4.4 distilled water, deionized water or water of similar quality.

4.6 Buchner funnel.

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This standard uses redrafted Law Amendment uses ISO 5264-2.2002 "Pulp Laboratory beating - Part 2. PFI mill method."

This standard and ISO 5264-2.2002 main technical differences and the reasons are as follows.

--- On normative references, this standard has been adjusted technical differences, in order to adapt our technical conditions, the adjusted situation

Focus is reflected in the status of Chapter 2, "Normative references", the specific adjustments are as follows.

- * Modify with international standards of GB/T 462 instead of ISO 287, ISO 638;
- * equivalents adoption of international standards GB/T 740 instead of ISO 7213;
- * equivalents adoption of international standards GB/T 5399 instead of ISO 4119;
- * Modify with international standards of GB/T 24327 instead of ISO 5263-1;
- * Modify with international standards of GB/T 29285 instead of ISO 5263-2 and ISO 5263-3.

--- Laboratory instruments and reagents in the balance by the error is reduced to +/- 0.2g +/- 0.1g, improve the accuracy of the standard;

--- Change the standard water distilled, deionized water or water of similar quality, enhanced operability standards;

--- Test instruments and reagents increased Buchner funnel.

The standard proposed by China National Light Industry Council.

The standard paper by the National Standardization Technical Committee (SAC/TC141) centralized.

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 use of PFI mill beating laboratory methods. This method is limited to beating the pulp sampling and take samples

Distribution and beating equipment.

Note. The beating was to test the physical properties of the pulp of the preparatory phase.

This standard applies to all kinds of chemical pulp and semi-chemical pulp. In practice, for some very long fiber pulp, measured by this method

It may not get satisfactory results.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein

Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 462 paper, board and pulp - Determination of water sample (GB/T 462-2008, ISO 287. 1985, ISO 638.

1978, MOD)

GB/T 740 pulp samples taken (GB/T 740-2003, ISO 7213. 1981, IDT)

GB/T 5399 pulp slurry concentration measurement (GB/T 5399-2004, ISO 4119.1995, IDT)

GB/T 24327-2009 Laboratory wet pulp solution dissociation from chemical pulp (ISO 5263-1.2004, MOD)

Wet Solutions GB/T 29285-2012 laboratory pulp from mechanical pulp dissociation (ISO

5263-2.2004, ISO 5263-3.2004,

MOD)

Principle 3

The predetermined concentration of pulp beating, beating and beating roll chamber between the roll and smooth beating beating room with Flying at different circumferential speed

Rotate in the same direction.

4.1 PFI mill. See Appendix A.

4.2 Standard dissociation device. the see GB/T 24327-2009 Appendix A or GB/T 29285-2012 Appendix B.

4.4 distilled water, deionized water or water of similar quality.

4.5 standard pulp. for beating control, the storage time should be long enough to avoid the physical properties of the pulp changes. If possible, a standard pulp

Beating the best species and types of equipment in the normal processing of the same pulp. Some pulp is not stable enough, you may have to select another pulp.

In order to avoid the influence of storage time, standard slurry should be stored at room temperature (not too high relative humidity), the dark and dust-free environment.

Note. If the standard slurry storage under recommended conditions, in most cases, can be stable for a decade or so. If the tensile strength and tear changes, says

Ming standard pulp is no longer stable. You can check its stability by measuring a standard viscosity of the slurry, such as checked twice a year.