INTERNATIONAL STANDARD

ISO 15360-2

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Recycled pulps — Estimation of Stickies and Plastics —

Part 2: Image analysis method

Pâtes recyclées — Estimation des matières collantes et des matières plastiques —

Partie 2: Méthode par analyse d'image



Reference number ISO 15360-2:2001(E)

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Contents

Page

1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Apparatus and equipment	2
6	Reagents	3
7	Sampling	4
8	Adjustment and calibration of the image analysis system	4
9	Pretreatment of the sample	4
10		5
11	Calculations	7
12	Precision	8
13	Test report	9
	N)	
Ar	inexes	
Α	Laboratory screening equipment	10
в	Laboratory screening equipment Comparison chart	12
Bib	oliography	14
	Q	
	Ö.	
	Ċ.	
	I and the second se	
	Senerated by FTLS	
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also rake part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 15360 may be the subject of patent rights. ISO shall not be held responsible in identifying any or all such patent rights.

International Standard ISO 15360-2 was prepared by Technical Committee ISO/TC 6, Paper, board and pulps, Subcommittee SC 5, Test methods and quality specifications for pulps.

a ge preview 'ISO 15300. Oenerated by the Attention of the second ISO 15360 consists of the following parts, under general title Recycled pulps - Estimation of Stickies and Plastics:

- Part 1: Visual method
- Part 2: Image analysis method

Annexes A and B form a normative part of this part of ISO

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Introduction

This part of ISO 15360 is complementary to ISO 15360-1, which concerns estimation of Stickies and Plastics in recycled pulp by visual examination. ISO 15360-2 is particularly useful for pulps having a high content of Stickies or Plastics or both where visual inspection is very time-consuming to carry out.

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Recycled pulps — Estimation of Stickies and Plastics —

Part 2:

Image analysis method

1 Scope

This part of ISO 15360 specifies a method to estimate Stickies and Plastics in all grades of recycled pulp. It applies the principles for the separation of Stickies and Plastics described in ISO 15360-1. The visualization and counting techniques described in that standard are replaced here by image analysis.

This part of ISO 15360 permits the use of different laboratory screening devices as well as screens of different sizes when applying the specified method. It is impracticable to define more closely the equipment or screen sizes to be used, because of the wide range of Stickes and Plastics found in recycled pulps, and the various screening devices which are being successfully used for the measurement.

NOTE This method will only estimate those Stickes and Plastics which are tacky and which are retained on the screen of a given slit size under the temperature and pressure conditions of this test method. It should be noted that this will probably not be the total amount of Stickies and Plastics that are actually present in a given pulp sample.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 15360. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 15360 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

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ISO 638, Pulps — Determination of dry matter content

ISO 4119, Pulps — Determination of stock concentration

ISO 5263, Pulps — Laboratory wet disintegration

ISO 5269-2, Pulps — Preparation of laboratory sheets for physical testing — Part 2: Rapid-Köthen method

ISO 7213, Pulps — Sampling for testing

ISO 8486-1, Bonded abrasives — Determination and designation of grain size distribution — Part 1: Macrogrits F4 to F220

DIN 54516:1985, Testing of paper and board — Determination of plybond resistance

TAPPI T 541 om-89, Internal bond strength of paperboard (z-direction tensile)

3 Terms and definitions

For the purposes of this part of ISO 15360, the following terms and definitions apply.