INTERNATIONAL STANDARD

ISO 12625-17

First edition 2021-04

Tissue paper and tissue products —

Part 17:

Determination of disintegration in water

Papier tissue et produits tissue —

Partie 17: Détermination du délitage (désintégration dans l'eau)





© ISO 2021

nentation, no part c'ical, including p'i vuested from All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

onpe		
pe		v
-		
mative references		1
		1
ms and definitions		1
nciple		1
gents		2
paratus		2
ditioning of test pieces		2
GeneralAccelerated ageing (optional)		3 3
General Test at 30 s		4 4
t report		5
nformative) Additional agitation tir	ne periods	11
		5
	paration of test pieces General Accelerated ageing (optional) Mass and shaping of test pieces t procedure General Test at 30 s Test at 2 min and 10 min culation and expression of the result report normative) Technical description of informative) Examples and pictures informative) Additional agitation tirenformative) Precision data	ditioning of test pieces paration of test pieces General Accelerated ageing (optional) Mass and shaping of test pieces t procedure General Test at 30 s Test at 2 min and 10 min culation and expression of the results t report normative) Technical description of the propeller Informative) Examples and pictures of types of shower heads and sieve Informative) Additional agitation time periods Informative) Precision data

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 take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 6 *Paper, board and pulps,* Subcommittee SC 2, *Test methods and quality specifications for paper and board.*

A list of all parts in the ISO 12625 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

ocument desc.
products after a. This document describes a test method to determine the disintegration in water for tissue paper and This document is a previous generated by tills

Tissue paper and tissue products —

Part 17:

Determination of disintegration in water

1 Scope

This document specifies a method to assess the disintegration of tissue paper and tissue products when subjected to mechanical agitation in water.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 186, Paper and board — Sampling to determine average quality

ISO 187, Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples

ISO 638- 1^{1}), Paper, board, pulps and cellulosic nanomaterials — Determination of dry matter content by oven-drying method — Part 1: Materials in solid form

ISO 3310-1, Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth

ISO 3310-2, Test sieves — Technical requirements and testing — Part 2: Test sieves of perforated metal plate

ISO 14487, Pulps — Standard water for physical testing

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

3.1

disintegration

process that is characterized by a material breaking into small pieces in water under specified conditions

4 Principle

A test piece of tissue paper or tissue product is placed in a beaker and is agitated in water using an impeller rotating at a constant speed for time durations of 30 s, 2 min and 10 min. After agitation, the beaker contents are poured into a specified sieve, and if there are remains on the sieve, they are

1

¹⁾ Under preparation. Stage at the time of publication: ISO/FDIS 638-1.