

DIN EN 643



ICS 85.060

Supersedes  
DIN EN 643:2014-05

**Paper and board –  
European list of standard grades of paper and board for recycling;  
English version EN 643:2014,  
English translation of DIN EN 643:2014-11**

Papier, Karton und Pappe –  
Europäische Liste der Altpapier-Standardsorten;  
Englische Fassung EN 643:2014,  
Englische Übersetzung von DIN EN 643:2014-11

Papiers et cartons –  
Liste européenne des sortes standard de papiers et cartons pour recyclage;  
Version anglaise EN 643:2014,  
Traduction anglaise de DIN EN 643:2014-11

Document comprises 18 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

*A comma is used as the decimal marker.*

## National foreword

This document (EN 643:2014) has been prepared by Technical Committee CEN/TC 172 "Pulp, paper and board", Secretariat: DIN, Germany), Working Committee WG 2 "Paper and board for recycling" (Secretariat: BSI, United Kingdom).

The responsible German body involved in its preparation was the *DIN-Normenausschuss Papier, Pappe und Faserstoff* (DIN Standards Committee Paper, Board and Pulps), Working Committee NA 074 BR-01 SO *Europäische Altpapiersortenliste*.

The European list of standard grades of paper and board for recycling is intended to be used by industry professionals, organisations and individuals with an interest in the paper-recycling sector. It is intended to assist them in the buying and selling of these raw materials, which are intended for recycling by the paper and board industry without the need of additional sorting prior to use at a paper mill.

This document has been prepared and supported by the following European organisations:

- CEPI Confederation of European Paper Industries;
- ERPA European Recovered Paper Association;
- FEAD European Federation of Waste Management and Environmental Service.

## Amendments

This standard differs from DIN EN 643:2002-03 as follows:

- a) due to fundamental changes in waste legislation, the classification of grades had to be adapted (see introduction);
- b) the terminology has been modified to be in accordance with the use of the product for paper recycling;
- c) two new columns have been introduced in the classification tables, one specifying the limits for non-paper components, and one specifying the limits of unwanted material;
- d) the Bibliography has been updated;
- e) the standard has been editorially revised.

Compared with DIN EN 643:2014-05, the following corrections have been made to the German version only and therefore do not affect the English text:

- a) in Subclause 6.3 "Group 3, high grades", Table 3, Group 3.16.01, the term *weiße, holzhaltige Papiere* has to be changed to read *weiße, holzfreie Papiere* (white wood free papers);
- b) in Subclause 6.5 "Group 5, special grades", Table 5, Group 5.06.01, the term *unbedruckte, weiße, nassfeste, holzfreie Papiere* has to be changed to read *unbedruckte, weiße und farbige, nassfeste, holzfreie Papiere* (unprinted white and coloured wet-strength papers).

## Previous editions

DIN EN 643: 1994-08, 2002-03, 2014-05

EUROPEAN STANDARD

EN 643

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2014

ICS 85.060

Supersedes EN 643:2001

English Version

## Paper and board - European list of standard grades of paper and board for recycling

Papiers et cartons - Liste européenne des sortes standard  
de papiers et cartons pour recyclage

Papier, Karton und Pappe - Europäische Liste der  
Altpapier-Standardsorten

This European Standard was approved by CEN on 6 December 2013.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Contents

Page

|  |    |
|--|----|
| Foreword.....  | 3  |
| Introduction .....   | 4  |
| 1 Scope .....  | 5  |
| 2 Terms and definitions .....                                      | 5  |
| 3 Group classification .....                                       | 6  |
| 4 Grade identification .....                                       | 6  |
| 5 General requirements.....  | 7  |
| 5.1 Source of the paper and board for recycling .....              | 7  |
| 5.2 Prohibited materials .....                                     | 7  |
| 5.3 Unwanted materials .....                                       | 7  |
| 5.4 Moisture content in paper and board for recycling.....         | 7  |
| 5.5 Form of delivery .....   | 7  |
| 5.6 Additional requirements for grades intended for deinking ..... | 8  |
| 5.6.1 Introduction .....   | 8  |
| 5.6.2 Age of newspapers .....                                      | 8  |
| 5.6.3 Paper products suitable for deinking .....                   | 8  |
| 6 Classifications.....   | 8  |
| 6.1 Group 1, ordinary grades .....                                 | 8  |
| 6.2 Group 2, medium grades .....                                   | 9  |
| 6.3 Group 3, high grades.....                                      | 11 |
| 6.4 Group 4, kraft grades .....                                    | 13 |
| 6.5 Group 5, special grades .....                                  | 14 |
| Bibliography .....   | 16 |

## Foreword

This document (EN 643:2014) has been prepared by Technical Committee CEN/TC 172 "Pulp, paper and board", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2014 and conflicting national standards shall be withdrawn at the latest by July 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 643:2001.

With regard to EN 643:2001, the following changes have been made:

- a) due to fundamental changes in waste legislation, the classification of grades has to be adapted (see introduction);
- b) the terminology has been modified to be in accordance with the use of the product for paper recycling;
- c) introduction in the classification tables of two new columns, one specifying the limits for non-paper components, and one specifying the limits of unwanted material;
- d) addition of "Bibliography";
- e) editorial updating.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Introduction**

This document, the European list of standard grades of paper and board for recycling, is intended to be used by industry professionals, organisations and individuals with an interest in the paper-recycling sector. It is intended to assist them in the buying and selling of these raw materials, which are intended for recycling by the paper and board industry without the need of additional sorting prior to use at a paper mill.

The definition for 'prohibited materials' and the limits for non-paper components provide guidance and support for Customs and Excise Officers who are required to differentiate these raw materials from waste in the context of supranational legislation on the control of waste shipments.

Furthermore, it is recommended that this document is used at all national levels in all official reports and in the day-to-day operation of companies. It secures the quality of the supply of paper and board for recycling to the paper mills through responsible sourcing of the paper industry's raw materials.

The major criterion is the use of the product for paper recycling. To take account of this criterion, the English terminology of EN 643 has been amended by substituting the term "Recovered paper and board" by "Paper and board for recycling" in the title and throughout the document.

The revision of EN 643 coincides with a fundamental change in waste legislation. The Waste Framework Directive (Directive 2008/98/EC [5]) introduces a procedure for defining End-of-Waste (EoW) criteria, which a given waste stream need to fulfil in order to cease to be waste.

The End-of-Waste criteria require compliance with EN 643, the provision of information on material that has ceased to be waste and the implementation of a quality management system.

It should be pointed out that the code numbers used to denote specific grades are not consecutive, as some grades have lost their importance in recent years. This affects grades 1.08, 1.10, 2.09 and 3.07. Wherever possible, the classification of grades was not changed compared to the previous version of this standard.

Finally, a limit for non-paper components is set for every grade, typically below 1,5 %, weight by weight. Much effort was given to the definition of tolerance levels for non-paper components and unwanted materials. The definition of tolerance levels reduces the need for individual agreements between buyer and supplier. However, specific agreements between individual buyers and suppliers may be used. Higher tolerances lead to non-standard grades.

This document has been prepared and supported by the following European organisations:

- CEPI Confederation of European Paper Industries;
- ERPA European Recovered Paper Association;
- FEAD European Federation of Waste Management and Environmental Service.

## 1 Scope

This European Standard defines grades of paper and board for recycling used as raw material for recycling in the manufacture of paper and board products in the paper industry.

This European Standard also specifies tolerances for unwanted materials as well as the composition of paper and board for recycling. Unusable materials (prohibited and unwanted materials) are clearly defined for all people involved in the management of paper and board for recycling.

## 2 Terms and definitions

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

### 2.1

#### **paper and board for recycling**

natural fibre based paper and board suitable for recycling and consisting of

- paper and board in any shape,
- products made predominately from paper and board, which may include other constituents that cannot be removed by dry sorting, such as coatings and laminates, spiral bindings, etc.

### 2.2

#### **prohibited materials**

any materials which represent a hazard for health, safety and environment, such as medical waste, contaminated products of personal hygiene, hazardous waste, organic waste including foodstuffs, bitumen, toxic powders and similar

### 2.3

#### **non-paper components**

any foreign matter in paper and board for recycling, which is not a constituent part of the product and can be separated by dry sorting, such as:

- metal;
- plastic;
- glass;
- textiles;
- wood;
- sand and building materials;
- synthetic materials

Note 1 to entry: Non paper components are part of the total amount of unwanted materials (see.2.7).

### 2.4

#### **paper and board detrimental to production**

those papers and boards which have been recovered or treated in such a way that they are, for a basic or standard level of equipment, unsuitable as raw material for the manufacture of new paper and board products, or are actually damaging, or whose presence makes the whole consignment of paper unusable

Note 1 to entry: For grades intended for deinking, all paper containing brown, unbleached fibres are considered detrimental to production.

Note 2 to entry: Some mills have developed their technology to handle grades, which are detrimental to production in standard processes; therefore, the range of paper and board capable of being recycled is increasing.

## **2.5**

### **paper and board not according to grade definition**

paper and board or products thereof which are not included in the description of the specific grade of paper and board for recycling

Note 1 to entry: This could lead to regrading.

## **2.6**

### **paper products suitable for deinking**

suitability for deinking is a characteristic of a printed-paper product

Note 1 to entry: For details on how to make this evaluation, see "Assessment of Print Product Recyclability – Deinkability Score" [3].

## **2.7**

### **unwanted material**

#### **outthrows**

material not suitable for the production of paper and board

Note 1 to entry: The unwanted material may comprise:

- non-paper components;
- paper and board detrimental to production;
- paper and board not according to grade definition;
- paper products not suitable for deinking (if applicable).

## **3 Group classification**

Paper and board for recycling is classified as follows:

- Group 1: Ordinary grades;
- Group 2: Medium grades;
- Group 3: High grades;
- Group 4: Kraft grades;
- Group 5: Special grades.

## **4 Grade identification**

Grades of paper and board for recycling have been systematically numbered according to a numerical code system as follows:





## 5.6 Additional requirements for grades intended for deinking

### 5.6.1 Introduction

The following requirements apply only to paper and board intended for deinking, and do not apply if paper and board for recycling is used in other paper recycling processes.

### 5.6.2 Age of newspapers

If paper and board for recycling is intended to be used in a deinking process, the average age of the newspapers shall not exceed six months from the date of issue. This refers to the grades 1.09.00, 1.11.00, 2.01.00 and 2.02.01.

### 5.6.3 Paper products suitable for deinking

Grades intended for deinking should consist of paper products suitable for deinking. Paper products not suitable for deinking belong to unwanted material. At the current state of knowledge, this refers to most flexographic printing, inkjet, liquid toners and to some UV cured prints.

**NOTE** If paper and board for recycling is not suitable for deinking it is usable in other paper recycling processes.

Grades usually intended for deinking are: 1.06.00, 1.06.01, 1.06.02, 1.07.00, 1.09.00, 1.11.00, 2.01.00, 2.02.01, 2.03.00, 2.03.01, 2.04.00, 2.04.01, 2.05.00, 2.05.01, 2.06.00, 2.06.01, 2.07.00, 2.07.01, 2.08.00, 2.12.00, 2.13.00, 3.01.00, 3.02.00, 3.03.00, 3.03.01, 3.04.00, 3.05.00, 3.06.00, 3.08.00, 3.09.00, 3.10.00, 3.10.01, 3.11.00, 3.11.01, 3.12.00, 5.05.00, 5.05.01, 5.09.00, 5.10.00 and 5.10.01.

## 6 Classifications

The 5 groups of standard grades for paper and board for recycling are detailed in the following 5 tables.

### 6.1 Group 1, ordinary grades

**Table 1 — Group 1, ordinary grades**

| Code    | Name                                 | Description   | Non-paper components in % max. | Total unwanted material in % max. |
|---------|--------------------------------------|---|--------------------------------|-----------------------------------|
| 1.01.00 | ordinary mixed paper and board       | A mixture of various grades of paper and board.   | 1,5                            | 3                                 |
| 1.02.00 | mixed paper and board                | A mixture of various qualities of paper and board, containing a maximum of 40 % newspapers and magazines.                           | 1,5                            | 2,5                               |
| 1.03.00 | boxboard cuttings                    | Printed and unprinted white lined and unlined grey board or mixed board, free from corrugated material.                             | 1                              | 2                                 |
| 1.04.00 | corrugated paper and board packaging | Used paper and board packaging, containing a minimum of 70 % of corrugated board, the rest being other packaging papers and boards. | 1,5                            | 3                                 |
| 1.04.01 | ordinary corrugated paper and board  | Used paper and board packaging, containing a minimum of 70 % of corrugated board, the rest being other paper and board products.    | 1,5                            | 3                                 |
| 1.04.02 | corrugated paper and                 | Used paper and board packaging, containing a  | 1,5                            | 3                                 |

|         |                                   |  |     |     |
|---------|-----------------------------------|--|-----|-----|
|         | board                             | minimum of 80 % of corrugated board, the rest being other paper and board products.  |     |     |
| 1.05.00 | ordinary corrugated board         | Used boxes and sheets of corrugated board of various qualities, may include 10 % of other packaging papers and boards.   | 1,5 | 2,5 |
| 1.05.01 | corrugated board                  | Used boxes and sheets of corrugated board of various qualities, may include 5 % of other packaging papers and boards.  | 1,5 | 2,5 |
| 1.06.00 | magazines                         | Magazines, with or without glue.   | 0,5 | 1   |
| 1.06.01 | magazines without glue            | Magazines without glue.  | 0,5 | 1   |
| 1.06.02 | magazines with product samples    | Magazines, with or without glue, may contain non-paper components as attached product samples (percentage to be agreed between seller and buyer in addition to the percentages in the columns to the right).           | 1   | 2   |
| 1.07.00 | telephone books                   | New and used telephone books, with unlimited content of pages coloured in the mass, with and without glue. Shavings allowed.   | 0,5 | 1   |
| 1.09.00 | newspapers and magazines          | Mixture of newspapers and magazines (predominantly unsold); each of them with a minimum of 30 %.   | 0,5 | 1   |
| 1.11.00 | sorted graphic paper for deinking | Sorted graphic paper, consisting of a minimum of 80 % newspapers and magazines. It shall contain at least 30 % newspapers and 40 % magazines. Print products which are not suitable for deinking are limited to 1,5 %. | 0,5 | 2,5 |

## 6.2 Group 2, medium grades

Table 2 — Group 2, medium grades

| Code    | Name  | Description   | Non-paper components in % max. | Total unwanted material in % max. |
|---------|---|---|--------------------------------|-----------------------------------|
| 2.01.00 | newspapers                                  | Newspapers, containing a maximum of 5 % of newspapers or advertisements coloured in the mass.   | 0,5                            | 1,5                               |
| 2.02.00 | unsold newspapers not intended for deinking | Unsold newspapers, which may contain inserts originally circulated with the publication. No additional inserts allowed. Paper products not suitable for deinking are allowed. | 0,5                            | 1                                 |
| 2.02.01 | unsold newspapers                           | Unsold newspapers, which may contain inserts originally circulated with the publication. No additional inserts allowed.   | 0,5                            | 1                                 |
| 2.03.00 | lightly printed white shavings              | Lightly printed white shavings, coated or uncoated, mainly mechanical pulp-based paper with no restriction for glue.  | 0,5                            | 1                                 |
| 2.03.01 | lightly printed white shavings without      | Lightly printed white shavings, coated or uncoated, mainly mechanical pulp-based paper  | 0,5                            | 1                                 |

|         |   |  |     |   |
|---------|---|--|-----|---|
|         | glue  | without glue.  |     |   |
| 2.04.00 | heavily printed white shavings              | Heavily printed white shavings, coated or uncoated, mainly mechanical pulp-based paper with no restriction for glue.   | 0,5 | 1 |
| 2.04.01 | heavily printed white shavings without glue | Heavily printed white shavings, coated or uncoated, mainly mechanical pulp-based paper without glue.   | 0,5 | 1 |
| 2.05.00 | ordinary sorted office paper                | Paper, as typically generated by offices, shredded or unshredded, printed, may contain coloured papers, with a minimum 60 % wood-free paper, free of carbon and principally free from carbonless copy paper (ccp)/no carbon required (NCR), less than 10 % unbleached fibres including manila envelopes and file covers, less than 5 % newspapers and packaging. | 1   | 2 |
| 2.05.01 | sorted office paper                         | Paper, as typically generated by offices, shredded or unshredded, printed, may contain coloured papers, with a minimum 80 % wood free paper, free of carbon and principally free from carbonless copy paper (ccp)/no carbon required (NCR), less than 5 % unbleached fibres including manila envelopes and file covers.  | 1   | 2 |
| 2.06.00 | ordinary sorted coloured letters            | Paper, as typically generated by offices, shredded or unshredded, lightly printed, mass coloured paper allowed, but no deep coloured papers, with a minimum of 70 % wood free paper, free of carbon and principally free of carbonless copy paper (ccp)/no carbon required (NCR), free of manila envelopes, file covers, newspapers and cardboard.               | 1   | 2 |
| 2.06.01 | sorted coloured letters                     | Paper, as typically generated by offices, shredded or unshredded, lightly printed, mass coloured paper allowed, but no deep coloured papers, with a minimum of 90 % wood free paper, free of carbon and principally free of carbonless copy paper (ccp)/no carbon required (NCR), free of manila envelopes, file covers, newspapers and cardboard.               | 1   | 2 |
| 2.07.00 | white wood free bookquire                   | Books or their shavings, without hard covers, mainly of white wood free paper, mainly black printed, containing a maximum of 10 % coated paper.  | 0,5 | 1 |
| 2.07.01 | white mechanical pulp-based bookquire       | Books or their shavings mainly of white mechanical pulp-based paper, without hard covers, mainly black printed, containing a maximum of 10 % of coated paper.  | 0,5 | 1 |
| 2.08.00 | coloured wood free magazines                | Coated or uncoated magazines, white or coloured in the mass, free from hard covers, bindings and poster papers. May include heavily printed circulars and coloured in the mass shavings. Contain a maximum of 10 % mechanical pulp-based papers.   | 0,5 | 1 |

|         |   |  |      |   |
|---------|---|--|------|---|
| 2.10.00 | bleached wood free board with plastic layer | Unprinted bleached wood free board with plastic layer from board manufacturers and converters.   | 0,25 | 1 |
| 2.11.00 | board with plastic layer                    | Printed or unprinted board with plastic layer. May contain unbleached board and paper from board manufacturers and converters.   | 0,25 | 1 |
| 2.12.00 | mechanical pulp-based computer print-out    | Mechanical pulp-based continuous computer printout may include recycled fibres.  | 0,5  | 1 |
| 2.13.00 | multigrade                                  | A blend of coloured and white letters, coloured wood free magazines and other wood free papers and shavings. Free from newsprint but 10 % of other wood containing papers are permitted. May contain 2 % paper with plastic layer. | 0,5  | 1 |
| 2.14.00 | coloured log end tissue                     | Unused coloured tissue including soft cores. May contain printed material.   | 0,25 | 1 |
| 2.14.01 | white log end tissue                        | Unused white tissue including soft cores. May contain printed material.  | 0,25 | 1 |

### 6.3 Group 3, high grades

Table 3 — Group 3, high grades

| Code    | Name                                      | Description  | Non-paper components in % max. | Total unwanted material in % max. |
|---------|---|--|--------------------------------|-----------------------------------|
| 3.01.00 | mixed coloured shavings lightly printer   | Mixed shavings of printing and writing papers, lightly coloured in the mass, containing a minimum of 50 % of wood free paper.  | 0,5                            | 1                                 |
| 3.02.00 | mixed coloured wood free printer shavings | Mixed shavings of printing and writing papers, lightly coloured in the mass, containing a minimum of 90 % of wood free paper.  | 0,5                            | 1                                 |
| 3.03.00 | wood free binders                         | White wood free lightly printed shavings with glue, free from paper coloured in the mass. May contain 2 % paper with plastic layer and a maximum of 10 % of mechanical pulp-based paper. | 0,5                            | 1                                 |
| 3.03.01 | special wood free binders                 | White wood free lightly printed shavings with glue, free from paper coloured in the mass. Plastic layered and mechanical pulp-based papers not permitted.                                | 0,5                            | 1                                 |
| 3.04.00 | tear white shavings                       | White wood free lightly printed shavings without glue, free from wet-strength paper and paper coloured in the mass.  | 0,5                            | 1                                 |
| 3.05.00 | white wood free letters                   | Sorted uncoated white wood free printing and writing papers, printed, free from cash books, carbon paper and non-water soluble adhesives. May contain 5 % mechanical pulp-based paper.   | 0,5                            | 1                                 |
| 3.05.01 | white wood free letters unprinted         | Sorted uncoated white wood free printing and writing papers, unprinted, free from carbon   | 0,5                            | 1                                 |

|         |  |   |      |     |
|---------|--|---|------|-----|
|         |  | paper, carbonless paper (NCR) and non-water soluble adhesives.  |      |     |
| 3.06.00 | white business forms                       | White wood free business forms free from carbonless paper (NCR) and glue.   | 0,5  | 1   |
| 3.08.00 | printed bleached sulphate board            | Heavily printed sheets of bleached sulphate board, without glue, polycoated or waxed materials.   | 0,5  | 1   |
| 3.09.00 | lightly printed bleached sulphate board    | Lightly printed sheets of bleached sulphate board, without glue, plastic layers waxed materials.  | 0,5  | 1   |
| 3.10.00 | multi printing                             | Lightly printed wood-free coated papers in sheets or trim, free from wet-strength paper and from paper coloured in the mass.                      | 0,5  | 1   |
| 3.10.01 | medium printed multi printing              | Medium and heavily printed wood free coated papers in sheets or trim, free from wet-strength paper and from paper coloured in the mass.           | 0,5  | 1   |
| 3.11.00 | white heavily printed multiply board       | New cuttings of heavily printed white multiply board, containing wood free or wood containing plies, but without grey and brown plies.            | 0,25 | 0,5 |
| 3.11.01 | mixed white heavily printed multiply board | New cuttings of heavily printed white multiply board, containing wood free or wood containing plies, with a maximum of 20 % grey and brown plies. | 0,25 | 0,5 |
| 3.12.00 | white lightly printed multiply board       | New cuttings of lightly printed white multiply board, containing wood free or mechanical pulp-based plies, but without grey and brown plies.      | 0,25 | 0,5 |
| 3.13.00 | white unprinted multiply board             | New cuttings of unprinted white multiply board, containing wood free or mechanical pulp-based plies, but without grey and brown plies.            | 0,25 | 0,5 |
| 3.14.00 | white newsprint                            | Shavings and sheets of white unprinted newsprint, free from magazine paper and glue.  | 0,25 | 0,5 |
| 3.15.00 | white mechanical pulp-based paper          | Shavings and sheets of white unprinted coated and uncoated mechanical pulp-based paper without glue.  | 0,25 | 0,5 |
| 3.15.01 | white coated mechanical pulp-based paper   | Shavings and sheets of white unprinted mechanical pulp-based coated paper without glue.   | 0,25 | 0,5 |
| 3.16.00 | white coated wood free paper               | Shavings and sheets of white unprinted wood-free coated paper without glue.   | 0,25 | 0,5 |
| 3.16.01 | white wood free papers                     | Shavings and sheets of white unprinted wood free coated and uncoated papers without glue.   | 0,25 | 0,5 |
| 3.17.00 | white shavings                             | Shavings and sheets of white unprinted paper, free from newsprint containing a minimum of 60 % of wood free paper. No glue permitted.             | 0,25 | 0,5 |
| 3.18.00 | white wood free shavings                   | Shavings and sheets of white unprinted wood free paper, may contain a maximum of 5 % of coated paper. Without glue.                               | 0,25 | 0,5 |
| 3.18.01 | white wood free uncoated shavings          | Shavings and sheets of white unprinted wood free paper, free from coated paper. Without   | 0,25 | 0,5 |

|         |                                       |  |      |     |
|---------|---------------------------------------|--|------|-----|
|         |                                       | glue.  |      |     |
| 3.18.02 | white envelope cuttings               | Shavings and sheets of white unprinted wood free paper, free from coated paper. May contain some glue. | 0,25 | 0,5 |
| 3.19.00 | unprinted bleached sulphate board     | Unprinted sheets of bleached sulphate board, without glue, polycoated or waxed materials.              | 0,25 | 0,5 |
| 3.20.00 | unprinted tissue coloured in the mass | Unused unprinted tissue coloured in the mass free of packaging materials.                              | 0,25 | 1   |
| 3.20.01 | white unprinted tissue                | Unused white unprinted tissue free from packaging materials.   | 0,25 | 1   |

#### 6.4 Group 4, kraft grades

Table 4 — Group 4, kraft grades

| Code    | Name   | Description   | Non-paper components in % max | Total unwanted material in % max |
|---------|--|---|-------------------------------|----------------------------------|
| 4.01.00 | unused board and shavings of corrugated material | Unused boxes, sheets and shavings of corrugated board, with liners of kraft and/or testliner.   | 0,25                          | 0,5                              |
| 4.01.01 | unused corrugated kraft                          | Unused boxes, sheets and shavings of corrugated board, with kraft liners only, the fluting made from chemical or chemo thermo mechanical pulp (CTMP). | 0,25                          | 0,5                              |
| 4.02.00 | used corrugated kraft 1                          | Used boxes of corrugated board, with kraft liners only, the fluting made from chemo thermo mechanical pulp (CTMP).                                    | 1                             | 2,5                              |
| 4.03.00 | used corrugated kraft 2                          | Used boxes of corrugated board, with liners of kraft or testliners but having at least one liner made of kraft.                                       | 1                             | 2,5                              |
| 4.04.00 | used kraft sacks                                 | Clean used kraft sacks. May be printed or unprinted or may be wet strength and/or non wet-strength.   | 1                             | 2                                |
| 4.05.00 | unused kraft sacks                               | Unused kraft sacks. May be printed or unprinted and may be wet strength and/or non wet-strength.  | 0,5                           | 1                                |
| 4.06.00 | used kraft                                       | Used kraft paper and board of a natural or white shade. May be printed or unprinted.  | 0,5                           | 1                                |
| 4.07.00 | new kraft  | Shavings and other new kraft paper and board of a natural shade.  | 0,5                           | 1                                |
| 4.08.00 | new carrier kraft                                | New carrier kraft. May be wet strength and/or non wet-strength and may be printed or unprinted.   | 0,5                           | 1                                |

### 6.5 Group 5, special grades

The grades of paper and board for recycling in this group can only be recycled by using specific processes, or can cause some particular constraints to recycling in most cases. Their inclusion in the list is justified by the existence of a significant European market.

Table 5 — Group 5, special grades

| Code    | Name   | Description   | Non-paper components in % max. | Total unwanted material in % max. |
|---------|--|---|--------------------------------|-----------------------------------|
| 5.01.00 | mixed papers   | A mixture of various paper grades that can be found in the groups 1 to 5.   | 3                              | 3                                 |
| 5.02.00 | mixed packaging  | A mixture of various qualities of used paper and board packaging free from graphic papers.  | 1,5                            | 3                                 |
| 5.03.00 | used liquid packaging board                              | Used liquid packaging board with plastic layer (with or without aluminium content), containing a minimum of 50 % by weight of fibres.                                 | 3                              | 3                                 |
| 5.03.01 | unused liquid packaging board                            | Printed or unprinted shavings or sheets of liquid packaging board (with or without aluminium and/or plastic layer), containing a minimum of 50 % by weight of fibres. | 0,5                            | 1                                 |
| 5.04.00 | wrapper kraft  | Used kraft paper with a plastic layer. Shall not contain wax coatings.  | 1                              | 2                                 |
| 5.05.00 | wet labels   | Used wet labels from wet-strength papers, containing a maximum of 1 % glass content, and a maximum of 50 % moisture, without other unusable materials.                | 1,5                            | 2,5                               |
| 5.05.01 | dry labels   | Labels made from wet-strength papers.   | 0,5                            | 1                                 |
| 5.05.02 | labels with base layer                                   | Label paper, release paper and label stock as well as from converting and dispensing of labels.   | 0,5                            | 1                                 |
| 5.05.03 | paper release liner for self-adhesive labels             | Release liner materials from the converting and dispensing of self-adhesive labels. Materials shall be free from labels, cores, and other contaminants.               | 0,5                            | 1                                 |
| 5.06.00 | unprinted white wet-strength wood free papers            | Unprinted white wet-strength wood free papers.  | 0,5                            | 1                                 |
| 5.06.01 | unprinted white and coloured wet-strength papers         | Unprinted white and coloured in the mass wet-strength papers.   | 0,5                            | 1                                 |
| 5.07.00 | printed white wet-strength wood free papers              | Printed white wet-strength wood free papers   | 0,5                            | 1                                 |
| 5.07.01 | printed white and coloured wet-strength wood free papers | Printed white and coloured in the mass wet-strength wood free papers  | 0,5                            | 1                                 |



|         |  |  |      |     |
|---------|--|--|------|-----|
| 5.08.00 | cores  | Shredded, hogged or unshredded solid cores from paper reels without metal ends.  | 1    | 2   |
| 5.09.00 | carbonless copy paper (NCR)                                  | Sheets or shavings of new carbonless copy paper (NCR).   | 0,25 | 1   |
| 5.10.00 | printed envelope white                                       | White envelopes, printed on the inside with or without water soluble or latex glue and windows (plastic or glassine).  | 0,5  | 1   |
| 5.10.01 | mixed envelopes  | Mixed white or coloured in mass envelopes with or without water soluble or latex glue and windows (plastic or glassine).   | 0,5  | 1   |
| 5.11.00 | blister pack   | Packaging board with flat or moulded plastic part. May be board with plastic layers and inserts.   | 1    | 2   |
| 5.12.00 | used kraft sacks   | Clean used kraft sacks. May be printed or unprinted or may be wet strength or non wet-strength. May include plastic layer papers.  | 1    | 2   |
| 5.12.01 | used kraft sacks with plastic layer papers                   | Clean used kraft sacks with plastic layer. May be printed or unprinted and may contain wet-strength or non wet-strength plies.   | 0,5  | 1   |
| 5.13.00 | unused kraft sacks   | Unused kraft sacks. May be printed or unprinted and may be wet-strength or non wet-strength, and may also include papers with a plastic layer.   | 0,5  | 1   |
| 5.13.01 | unused kraft sacks with plastic layer papers and poly liners | Unused kraft sacks with plastic layer and poly liners. May be printed or unprinted and may contain wet-strength or non- wet-strength plies.  | 0,5  | 1   |
| 5.14.00 | used paper cups and other used tableware                     | Used paper cups and other tableware, including used plastic layered paper cups and tableware, containing a minimum of 75 % by weight of fibres.  | 1,5  | 2,5 |
| 5.14.01 | Unused paper cups and other tableware                        | Printed or unprinted shavings or sheets from the production of paper cups and other tableware, including plastic layered paper cups and tableware, containing a minimum of 75 % by weight of fibres. | 0,5  | 1   |

## Bibliography

- [1] *Recovered Paper Quality Control Guidelines*
- [2] *Guidelines for Responsible Sourcing and Supply of Recovered Paper*
- [3] *Assessment of Print Product Recyclability – Deinkability Score – User's Manual, provided by the European Recovered Paper Council, [www.paperforrecycling.eu](http://www.paperforrecycling.eu)*
- [4] *METHOD I.N.G.E.D.E. 7: Visual Inspection for Recovered Paper for Deinking, Unbaled Delivery, [www.ingede.org](http://www.ingede.org)*
- [5] *Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, OJ L 312, 22.11.2008, p. 3–30, available from: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:312:0003:0030:EN:PDF>*