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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.

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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of an identical text or by endorsement, at the latest by July 2014 and conflicting national standards shall be withdrawn at the latest by July 2014.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.

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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.

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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:

Example for a designation: → paper grade → → EN°643 → → 2 → - → 03 → - → 01¶

Description: _____ ¶

Standard main number: _____ ¶

Group 2 (medium grade): _____ ¶

Grade 3 (lightly printed white shavings): _____ ¶

Subgrade 01 (lightly printed white shavings without glue): _____ ¶

In case of the main grades, replace the code of the subgrade by "00".

5 General requirements

5.1 Source of the paper and board for recycling

Paper and board mills may ask for a declaration from the supplier about the origin of the material, in relation to national regulations or standard requirements relating to paper and board for recycling.

The use of the "European Recovered Paper Identification System" (2008) is recommended.

Paper and board for recycling originating from multi-material collection systems, containing only material of a valuable, recyclable nature, shall be specifically marked. It is not permissible to mix it unmarked with other paper and board for recycling.

Paper sorted from refuse collections is not suitable for use in the paper industry.

5.2 Prohibited materials

Prohibited materials, as defined in 2.2 are not permitted at all.

5.3 Unwanted materials

In principle, paper and board for recycling should be supplied free of unwanted materials. The list of grades, however, specifies levels of tolerance for non-paper components and the total unwanted materials (outthrows). The total value of unwanted materials is the combined percentage of all unwanted materials defined in 2.7.

5.4 Moisture content in paper and board for recycling

In principle, paper and board for recycling will be supplied with moisture of not more than the naturally occurring level. Where the moisture content is higher than 10 % (of air-dried weight), the additional weight in excess of 10 % may be claimed back – with the method of testing and sampling to be agreed between buyer and seller.

5.5 Form of delivery

Shredding of paper and board for recycling should be avoided and thus be limited to reasons where confidentiality is required. If shredding cannot be avoided, the pieces should be left as large as possible.

EN 643:2014 (E)**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

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	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 lightly coloured printer shavings	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 lightly 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

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		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

EN 643:2014 (E)**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 white envelope	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

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Bibliography

- [1] *Recovered Paper Quality Control Guidelines*
- [2] *Guidelines for Responsible Sourcing and Supply of Recovered Paper*
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- [4] *METHOD I.N.G.E.D.E. 7: Visual Inspection for Recovered Paper for Deinking, Unbaled Delivery, 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>*