

SLOVENSKI STANDARD

SIST EN 643:2002

01-maj-2002

BUXca Yý U
SIST EN 643:2000

Papir, karton in lepenka - Seznam evropskih standardnih vrst papirja, kartona in lepenke za predelavo

Paper and board - European list of standard grades of recovered paper and board

Papier und Pappe - Europäische Liste der Standardsorten für Altpapier und Pappe

Papiers et cartons - Liste européenne des sortes standard de papiers et cartons récupérés

[SIST EN 643:2002](https://standards.iteh.ai/catalog/standards/sist/9bb7474c-1289-4dc5-b7ed-7755be788444/sist-en-643-2002)

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Ta slovenski standard je istoveten z EN 643:2001

ICS:

01.040.85	Tehnologija papirja (Slovarji)	Paper technology (Vocabularies)
85.060	Papir, karton in lepenka	Paper and board

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 643

December 2001

ICS 01.040.85; 85.060

Supersedes EN 643:1994

English version

**Paper and board - European list of standard grades of recovered
paper and board**

Papiers et cartons - Liste européenne des sortes standard
de papiers et cartons récupérés

Papier und Pappe - Europäische Liste der Standardsorten
für Altpapier und Pappe

This European Standard was approved by CEN on 3 November 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This European Standard 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 June 2002, and conflicting national standards shall be withdrawn at the latest by June 2002.

This European Standard supersedes EN 643:1994.

With regard to EN 643:1994 the following changes have been made :

- a) title has been changed;
- b) the classification of raw material qualities was adapted to the market need;
- c) a designation was supplemented;
- d) taking into consideration the European market, the groups were renumbered;
- e) group 5 "special grades" has been created and established;
- f) editorial updating.

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According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The European list of standard grades of recovered paper and board is for use by industry professionals, organisations and individuals with an interest in the recovered paper sector to assist in the buying and selling of this raw material intended for recycling by the paper and board industry.

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.

This list also provides help and support for Customs and Excise Officers who are required to classify these raw materials from waste in the context of supranational legislation on the control of waste movement.

Recovered paper and board originating from multi material collection systems, containing only material of a valuable, recyclable nature, has to be specifically marked. It is not permissible to mix it unmarked with other recovered paper and board.

1 Scope

This European list specifies European Standard grades of recovered paper and board which gives a general description of the standard grades by defining what they do and do not contain.

It is not the purpose of this European Standard to specify all the qualities of recovered paper and board that exist in the different markets, but rather to define those qualities most commonly traded in Europe. The description of the standard grades is brief, and for this reason it is recognised that specific deals between buyer and supplier for standard grades with special specifications will still be necessary to meet individual requirements and will not be excluded by any implied regulations associated with the publication of this European Standard.

This list contains a group of recovered paper grades (Group 5 "Special qualities") that, in most cases, can only be recycled using specific processes, or can cause some particular constraints to recycling. Their inclusion in the list is justified by the existence of a significant European market. Actual recycling of the qualities can only be done by a limited number of mills located in a few countries only.

Recovered paper from refuse sorting stations is not suitable for use in the paper industry.

2 Terms and definitions

For the purposes of this European Standard the following terms and definitions apply:

2.1

unusable material

material unusable in the production of paper and board. It consists of "non-paper components and paper and board detrimental to production". Recovered paper and board should in principle be supplied free of unusable materials, but where for specific grades a certain proportion of unusable materials is agreed between purchaser and supplier, it shall refer solely to the element described as "paper and board detrimental to production"

2.2

non-paper components

consist of any foreign matter in the recovered paper and board which, during processing, may cause damage to machines or interruptions to production or may reduce the value of the finished product, such as :

— metal;

— plastic;

- glass;
- textiles;
- wood;
- sand and building materials;
- synthetic materials;
- synthetic papers.

2.3

paper and board detrimental to production

grades of paper and board 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 paper and board, or are actually damaging, or whose presence makes the whole consignment of paper unusable

A growing number of mills have, however, adapted treatment plants to handle such grades, and the range of papers and boards capable of being recycled is increasing all the time as technology develops. The criteria for defining the percentage of "unusable materials" for these grades will be subject to individual mills' specifications.

3 Grade identification

Recovered paper and board is graded as follows :

- Group 1: ordinary grades;
- Group 2: medium grades;
- Group 3: high grades;
- Group 4: kraft grades;
- Group 5: special grades.

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4 Moisture content in recovered paper and board

Recovered paper and board will, in principle, 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.

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5 Designation

Recovered paper grades have been systematically numbered according to a numerical code system as follows:

Example for a designation:

	<u>paper grade</u>	<u>EN 643</u>	-	<u>2</u>	-	<u>03</u>	-	<u>01</u>
Description								
Standard main number								
Group 2 (medium grade)								
Grade 03 (lightly printed white shavings)								
Subgrade 01 (lightly printed white shavings without glue).								

In that case, where no subgrade exists, add "00".

6 Quality classification of raw materials

6.1 Group 1, ordinary qualities

1.01 Mixed paper and board, unsorted, but unusable materials removed

A mixture of various grades of paper and board, without restriction on short fibre content.

1.02 Mixed papers and boards (sorted)

A mixture of various qualities of paper and board, containing a maximum of 40 % of newspapers and magazines.

1.03 Grey board

Printed and unprinted white lined and unlined grey board or mixed board, free from corrugated material.

1.04 Supermarket corrugated paper and board

Used paper and board packaging, containing a minimum of 70 % of corrugated board, the rest being solid board and wrapping papers.

1.05 Old corrugated containers

Used boxes and sheets of corrugated board of various qualities.

1.06 Unsold magazines

Unsold magazines, with or without glue.

1.06.01 Unsold magazines without glue

Unsold magazines without glue.

1.07 Telephone books

New and used telephone books, with unlimited content of pages coloured in the mass, with and without glue. Shavings allowed.

1.08 Mixed newspapers and magazines 1

A mixture of newspapers and magazines, containing a minimum of 50 % of newspapers, with or without glue.

1.09 Mixed newspapers and magazines 2

A mixture of newspapers and magazines, containing a minimum of 60 % of newspapers, with or without glue.

1.10 Mixed magazines and newspapers

A mixture of newspapers and magazines, containing a minimum of 60 % of magazines, with or without glue.

1.11 Sorted graphic paper for deinking

Sorted graphic paper from households, newspapers and magazines, each at a minimum of 40 %. The percentage of non-deinkable paper and board should be reduced over time to a maximum level of 1,5 %. The actual percentage is to be negotiated between buyer and seller.

6.2 Group 2, medium grades

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2.01 Newspapers

Newspapers, containing a maximum of 5 % of newspapers or advertisements coloured in the mass.

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2.02 Unsold newspapers

Unsold daily newspapers, free from additional inserts or illustrated material coloured in the mass.

2.02.01 Unsold newspapers, no flexo-graphic printing allowed

Unsold daily newspapers, free from additional inserts or illustrated material coloured in the mass, strings allowed. No flexo-graphic printed material allowed.

2.03 Lightly printed white shavings

Lightly printed white shavings, mainly mechanical pulp based paper.

2.03.01 Lightly printed white shavings without glue

Lightly printed white shavings, mainly mechanical pulp based paper, without glue.

2.04 Heavily printed white shavings

Heavily printed white shavings, mainly mechanical pulp based paper.

2.04.01 Heavily printed white shavings without glue

Heavily printed white shavings, mainly mechanical pulp based paper, without glue.

2.05 Sorted office paper

Sorted office paper.