



SLOVENSKI STANDARD

SIST EN 13427:2001

01-februar-2001

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Packaging - Requirements for the use of European standards in the field of packaging and packaging waste

Verpackung - Anforderungen an die Anwendung der Europäischen Normen zu Verpackungen und Verpackungsabfällen

Emballage - Exigences relatives a l'utilisation des normes dans le domaine de l'emballage et des déchets d'emballage

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Ta slovenski standard je istoveten z: EN 13427:2000

ICS:

13.030.99	Drugi standardi v zvezi z odpadki	Other standards related to wastes
55.020	Pakiranje in distribucija blaga na splošno	Packaging and distribution of goods in general

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EUROPEAN STANDARD

EN 13427

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2000

ICS 13.030.99; 55.020

English version

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This European Standard was approved by CEN on 4 June 2000.

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 Central Secretariat 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 Central Secretariat 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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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by March 2001, and conflicting national standards shall be withdrawn at the latest by March 2001.

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.

This standard provides the procedure for applying a series of standards and reports prepared under Mandate M 200 rev.3 given to CEN by the European Commission and the European Free Trade Association to support the European Parliament and Council Directive on Packaging and Packaging Waste [94/62/EC]. The requirement for this standard was confirmed in 1997

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Introduction

Packaging is required to conform to a significant range of functional and legal demands. This standard addresses compliance with requirements of the Packaging and Packaging Waste Directive (94/62/EC). This Directive states in the preamble : "whereas in order to minimise the impact of packaging and packaging waste on the environment and to avoid barriers to trade and distortion of competition, it is also necessary to define the essential requirements governing the composition and the reusable and recoverable (including recyclable) nature of packaging".

The essential requirements as defined in article 9 and Annex II of the Directive, together with the specific restrictions relating to Heavy Metals contained in article 11, are focused on the environmental impact of packaging after use. The five (mandated) standards and one (mandated) CEN report (in two parts) which have been developed to assist the presumption of compliance with the essential requirements are consequently designed to meet this specific aspect.

Compliance with the essential requirements through the use of European Standards, will involve the supplier in the consideration of this standard in addition to those referred to in the previous paragraph. Although the essential requirements of the directive are focused on the effects of packaging after use, it is necessary that these individual but associated Reports or Standards be addressed prior to placing the packaging and packed products on the market. Of these, the CEN Report relates to the presence and concentration of noxious and hazardous substances including the four specified heavy metals , whilst five mandated Standards address concepts of source reduction, reuse and recovery. Their application is capable of reducing the impact of packaging disposed of as waste but they are not necessarily simultaneously applicable to the same unit of packaging.

These standardized procedures, which are listed in Clause 5 of this standard, can be mutually exclusive in some combinations and circumstances and it is therefore essential that in developing a strategy for the application of any one of these processes its relationship with the others be taken into account. For this reason, although dedicated standards have been developed for five of these concepts and a CEN report prepared to assist the assessment of heavy metals, this sixth standard has been introduced to govern the relationship between these assessments. Its purpose is to establish the overall methodology for a set of measures that will enable those responsible for the placing of packaging or packed products on the European market to do so with a presumption of compliance with the essential requirements of the Directive.

It is recommended that the procedures and record keeping specified in this standard be applied as part of a formal quality management system such as those specified in the EN ISO 9000 series or an environmental management system such as the EN ISO 14000 series.

1 Scope

This European Standard specifies requirements and a procedure by which a person or organization responsible for placing packaging or packed product on the market (the supplier) may combine the application of five (mandated) packaging standards and one (mandated) CEN report (in two parts).

2 Normative References

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to, applies.

EN 13193, 2000: *Packaging - Packaging and the environment – Terminology.*

EN 13428, 2000: *Packaging – Requirements specific to manufacturing and composition - Prevention by source reduction*

Pr EN 13429, *Packaging – Reuse.*

EN 13430, 2000: *Packaging - Requirements for packaging recoverable by material recycling.*

EN 13431, 2000: *Packaging - Requirements for packaging recoverable in the form of energy recovery, including specification of minimum inferior calorific value.* EN 13432, 2000: *Packaging - Requirements for packaging recoverable in the form of composting and biodegradation – Test scheme for the final acceptance of packaging (ready for organic recovery).*

CR 13695 - 1, 2000: *Packaging – Requirements for measuring and verifying heavy metals and other dangerous substances, present in packaging and their release into the environment - Part 1 : Requirements for measuring and verifying the four heavy metals present in packaging.*

3 Terms and Definitions

For the purpose of this standard the terms and definitions contained in EN 13193:2000 together with the following, apply :

3.1 supplier

entity responsible for placing packaging or packed product on the market

NOTE The term “supplier” in normal usage can relate to various points in a supply chain. For the purpose of this standard it relates to any point in the supply chain where a transaction relating to packaging or packed product takes place.

3.2 packaging component

part of packaging that can be separated by hand or by using simple physical means

4 Rationale and methodology

4.1 General approach

The relationship between the essential requirements contained in the EC Packaging Directive and the standards or reports containing the criteria for assessment is shown in Annex A, and particularly in Table A.1. The reference numbers in column 3 of Table A.1 refer to the numbers in Table 1 that show the relationship between the standards and reports.

Each of the standards and the heavy metals report identified in Table 1 has been elaborated to enable the supplier to assess, through the use of a check list, conformance with the requirements relevant to its own particular procedure. Information annexes amplify the nature of the requirements and provide guidance on the methodology of assessment.

The supplier is required to select, from these, the appropriate assessment procedures for any particular packaging taking account of design requirements such as the functional requirements of that packaging, including safety, hygiene and consumer acceptance of the packed product. The selection will include identification of whether the packaging is intended to be reused and consideration of interactions with other standardized requirements.

Consideration of such interaction may highlight the fact that optimization of the effect of one procedure may require moderation in the application of others. A significant element of selecting and applying the separate standards will be to determine the most appropriate balance between them for any particular application.

It is recommended that the supplier should apply these principles as an integral part of his/her formal management system, e.g. by incorporation of the procedures into an existing EN/ISO 9000/14000 scheme, in order to improve the environmental performance of the operation and to provide the opportunity for continuous improvement of the performance of the packaging placed on the market.

Table 1 - Relationship between the five (mandated) packaging standards, and one (mandated) CEN report

1 Manufacturing and composition	2 Reuse	3 Recovery
1.1 Prevention by source reduction (EN 13428:2000)	2 Reuse (pr EN 13429)	3.1 Material recycling (EN 13430:2000)
1.2 Requirements for measuring and verifying the four heavy metals present in packaging (CR 13695-1)		3.2 Energy recovery (EN 13431:2000)
1.3 Requirements for measuring and verifying noxious and other dangerous substances present in packaging (EN 13428:2000)		3.3 Recovery through composting and biodegradation (EN 13432:2000)

4.2 Particular approach to heavy metals and noxious and other hazardous substances

The assessment of environmental impact from heavy metals in packaging after incineration or landfilling is addressed in the CEN Report CR 13695-1. Particular attention should be paid to the concept of the component in the application of the recommendations of this report.

Noxious and other hazardous substances and materials are defined in a number of European Directives. Their presence in emissions, ash and leachate from the waste management operations of incineration and land filling is also covered by legislation. Given this, the application of the procedure in EN 13428:2000 addresses the compliance of packaging with Annex II, paragraph 1, indent 3 of the directive.

4.3 Levels of application

The smallest part of a packaging considered in this standard is a component. Usually a number of components will be brought together to form a functional unit of packaging and these may in turn be brought together in a complete packaging system which could comprise primary, secondary and tertiary packaging (as defined in article 3 of 94/62/EC). Table 2 gives the relevant level, within the overall system, to which the various assessment methods should be applied.

Table 2 - Levels of application for assessment methods

Packaging at the level of the component	Packaging at the level of the functional unit	Complete packaging system
Minimization of heavy metals and noxious and other hazardous substances	Reuse Recovery in the form of material Recovery in the form of energy Recovery in the form of compost	Prevention by source reduction
NOTE Application of prevention by source reduction to the complete packaging system implies consideration of all elements of that system.		

5 Requirements

5.1 Consideration and selection of appropriate assessment procedures

5.1.1 The supplier shall ensure that the applicability of the relevant standards listed in Table 1 has been assessed in relation to packaging or packed product placed on the market, taking into account their intended use.

5.1.2 The supplier shall ensure that due consideration is given to the limiting and if appropriate the further reduction of levels of heavy metals using the procedure recommended in clause 7.2 of CR 13695-1:2000 or for any noxious and other hazardous substances as specified in EN 13428:2000.

5.1.3 The supplier shall select, for packaging or packed goods placed on the market, a combination of standards/reports in accordance with Tables 2 and 3 and with the objective of achieving a reduction in environmental impact of packaging waste whilst ensuring the maintenance of function, safety and consumer acceptance.

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Table 3 - Applicability of assessment procedures

Assessment reference	Assessment	Applicability
1.1	Prevention by source reduction (EN 13428:2000)	all
1.2	Minimization of heavy metals (CR 13695-1:2000)	all
1.3	Minimization of noxious and other dangerous substances (EN 13428:2000) (see Clause 4.2)	all
2	Reuse (pr EN 13429)	where claimed
	3.1 Material recovery (EN 13430:2000))
3	Recovery)at least one to all
	3.2 Energy recovery (EN 13431:2000))
	3.3 Composting recovery (EN 13432:2000))
For conformity with this European Standard, the assessment summary shall record affirmative responses to assessments referenced 1.1, 1.2, 1.3 and to at least one of 3.1; 3.2; 3.3. In addition, although there is no requirement to consider the reuse option, where a claim of 'reuse' is made, section 2 shall also record an affirmative response. Where more than one recovery route is claimed assessment records shall be provided in support of each.		