

Packaging — Requirements specific to manufacturing and composition — Prevention by source reduction

The European Standard EN 13428:2000 has the status of a
British Standard

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National foreword

This British Standard is the official English language version of EN 13428:2000.

The UK participation in its preparation was entrusted to Technical Committee PKW/4, Packaging and the environment, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 21 and a back cover.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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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 has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex Z, which is an integral part of this standard.

This standard forms one of 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 Council and Parliament Directive on Packaging and Packaging Waste [94/62/EC]. The procedure for applying this standard in conjunction with the other mandated standards and reports is specified in EN 13427.

This standard contains Annexes A, B and Z which are informative and Annex C which is normative.

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of an identical text or by endorsement, at the latest by March 2001, and conflicting national standards shall be withdrawn at the latest by March 2001.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

Introduction

The Directive on Packaging and Packaging Waste (94/62/EC) defines requirements for the manufacturing and composition of packaging. This standard amplifies these requirements with respect to reduction of packaging at source and the minimisation of dangerous substances as they may arise from waste management operations. The European Standard EN 13427:2000 provides a framework within which this and four other standards may be used together to support a claim that a packaging is in compliance with the essential requirements for packaging to be placed on the market as required by the Directive.

The purpose of packaging is the containment, protection, handling, delivery and presentation of products. A major role is prevention of product damage and/or product waste. Reduction of packaging at source is one of several options for reducing the amount of used packaging for final disposal. In order to save resources and minimise waste, the whole system in which the packaging takes part should be optimised. This will include particular reference to packaging reuse and recovery, and with respect to social and economic factors.

This European Standard presents a framework for self-assessment to determine whether the requirements of this standard have been met. Its approach is similar to that of systems standards such as the EN ISO 9000 and EN ISO 14000 series.

1 Scope

This European Standard specifies a procedure for assessment of packaging to ensure that the weight and/or volume of its material content is at the minimum commensurate with the maintenance of :

- functionality throughout the supply and user chain ;
- safety and hygiene for both product and user/consumer ;
- acceptability of the packed product to the user/consumer.

The substitution of one material by another is not a basis for source reduction.

This European Standard also specifies the methodology and procedure for the minimisation of any dangerous substances if they are present in packaging and are released into the environment as a result of waste management operations.

The procedure for applying this standard is contained in EN 13427:2000.

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 reference, subsequent amendments to or revisions of any of these publications apply to this draft 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 13427 : 2000, *Packaging – Requirements for the use of European Standards in the field of packaging and packaging waste*.

3 Terms and definitions

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

3.1

prevention by source reduction

process for the achievement of a minimum adequate weight and/or volume, for identical requirements, of primary and/or secondary and/or tertiary packaging, when performance and user acceptability remain unchanged and/or adequate, thereby minimising the impact on the environment

3.2

critical area for source reduction

specific performance criterion which prevents further reduction of weight and/or volume of the packaging without endangering functional performance, safety and user/consumer acceptability

3.3

supplier

entity responsible for placing packaging or packed product on the market [EN 13427:2000]

4 Requirements

4.1 Application

The application of this standard to any particular packaging shall be as specified in EN 13427:2000

4.2 Packaging assessment

The supplier shall be able to demonstrate that the minimum adequate amount of weight and/or volume of the finished packaging have been reached taking into account all the "performance criteria" included in clause 5.

The supplier shall be able to demonstrate that substances identified as dangerous through the application of the procedure in annex C have been minimised.

4.3 Determination of critical area

The supplier shall evaluate the complete list of relevant criteria developed as a result of 4.2 to determine the "critical area" which will govern the achievable limit for source reduction. See Annex A.2 for guidance.

The identification of the critical area shall be the basis of complying with this standard for minimisation. If no critical area has been identified the packaging is not in compliance with the requirements of this standard and the potential for (further) source reduction is to be investigated.

4.4 Demonstration of source reduction

The supplier shall :

- prepare on request a statement of conformity to 4.2 and 4.3 ;
- document the relevant data or other information used to develop the list of relevant performance criteria and in particular to establish the nature and effects of the critical elements ;
- use a checklist as the basis for the statement of conformity (such as examples in Annex B) or its own documentation providing that all performance criteria listed in clause 5 are covered.

5 List of performance criteria

- Product protection
- Packaging manufacturing process
- Packing/filling process
- Logistics (including transport, warehousing and handling)
- Product presentation and marketing
- User/Consumer acceptance
- Information
- Safety
- Legislation
- Other issues