SLOVENSKI STANDARD
SIST EN 13008:2001

01-februar-2001

Jekleni sodi - Sodi s snemljivim pokrovom (široka odprtina) z nazivno prostornino od 15 do 62 l

Steel drums - Removable head (open head) drums with a nominal capacity of 15 l to 62 l

Stahlfässer - Deckelfässer mit einem Nennvolumen von 15 l bis 62 l

Futs en acier - Tonnelets à ouverture totale d'une capacité nominale de 15 l a 62 l

Ta slovenski standard je istoveten z: **EN 13008:1999**

ICS:

55.140 Sodi. Kovinski sodi. Roļ ke Barrels. Drums. Canisters

SIST EN 13008:2001 **en**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13008

December 1999

ICS 55.140

English version

Steel drums - Removable head (open head) drums with a nominal capacity of 15 l to 62 l

Fûts en acier - Tonnelets à ouverture totale d'une capacité nominale de 15 l à 62 l

Stahlfässer - Deckelfässer mit einem Nennvolumen von 15 l bis 62 l

This European Standard was approved by CEN on 23 October 1999.

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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.

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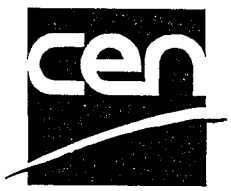

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2000, and conflicting national standards shall be withdrawn at the latest by June 2000.

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 is one of a series of standards on steel drums of 17 l to 230 l and closures.

Efficient packaging is of great importance for the distribution and the protection of goods. Insufficient or inappropriate packaging can lead to damage or wastage of the contents of the package.

1. Scope

This European Standard specifies the characteristics and dimensions of removable head (open head) drums, manufactured from steel sheet, having a nominal capacity of 15 l to 62 l.

2. Normative references

This European Standard incorporates by dated and 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 10111:1998 Continuously hot-rolled low carbon steel sheet and strip for cold forming - Technical delivery conditions.

EN 10130+A1:1998 Cold rolled low carbon steel flat products for cold forming - Technical delivery conditions.

EN 10131:1991 Cold rolled uncoated low carbon and high yield strength steel flat products for cold forming - Tolerances on dimensions and shape.

EN ISO 90-2 : 1999 Light gauge metal containers - Definitions and determination of dimensions and capacities — Part 2: General use containers (ISO 90-2:1997).

3. Terms and definitions

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

3.1
removable head (open head) drum (OH)
cylindrical or tapered packaging made of steel, the bottom end of which is permanently fixed to the body and the top end of which can be removed as a lid and is closed by means of a closing ring, or alternatively, the top is a multi-lug cover which is closed by crimping to the body

3.2
nominal capacity (NC)
capacity in litres which, by convention, is used to represent a class of drums of similar brimful capacities

3.3
brimful capacity (BC)
volume of water in litres held by the drum when filled through the filling orifice to the point of overflowing

NOTE Annex A specifies the method for measuring brimful capacity.

3.4
total capacity (TC)
volume of water in litres held by the drum when filled completely, i.e. following the removal of any air trapped in the drum

NOTE Annex A specifies the method for measuring total capacity.

3.5
overall height (h_o)
height of the finished drum from base to the highest point (see Figures 1 and 2)

3.6
external diameter (d_e)
maximum dimension of a drum diameter (see Figures 1 and 2)

3.7
internal diameter (d_i)
maximum internal diameter of the drum body shell (see Figures 1 and 2)

4. Dimensions

The dimensions of removable head (open head) drums with a nominal capacity of 15 l to 60 l shall be as given in Tables 1 and 2 and as shown in Figures 1 and 2. In addition the steel thickness shall be between 0,5 mm and 1,0 mm, with tolerances as specified in EN 10131:1991 (normal tolerances).

5. Material

The body and ends of the drums shall be made of steel DC 01 in accordance with EN 10130+A1:1998, hot-rolled steel DD11 in accordance with EN 10111:1998, or steel of a higher strength.

6. Construction

6.1 The longitudinal seam of the body shall be welded and the body and the bottom end shall be combined by seaming (e.g. flat or round seaming).

NOTE 1 The drum body can be tapered or straight-sided and in addition have bead(s) and/or corrugations.

NOTE 2 Handle(s) may be fitted.

6.2 The removable lid shall be fitted with a gasket of suitable material compatible with the contents of the drum.

NOTE The removable lid can be fitted with an inserted flange type closure in accordance with prEN 12928:1997, a flexible plastics spout closure inserted after filling, the aperture for which is in accordance with prEN 13029:1997, or other types of closures. If applicable the closure should be fitted with a washer of suitable material compatible with the contents of the drum. The insertion of the closure should be such that its centre line is as close as possible to the vertical.

7. Finish

The nature of the internal and external finish shall be appropriate to the physical and chemical requirements of their intended use.

NOTE The nature of the internal and external finish should be agreed between the purchaser and the manufacturer.

8. Designation

A removable head (open head) drum manufactured in accordance with this standard with a nominal capacity of 15 l to 62 l and an external diameter (d_e) of 278 mm to 415 mm shall be designated:

Steel drum OH/SS-T EN 13008 NC - 15 l to 62 l. d_e 278 - 415 mm.

EXAMPLE 1 A straight-sided drum with a nominal capacity of 20 l having an external diameter of 325 mm would be designated:

Steel drum OH/SS EN 13008 NC-20 l. d_e-325 mm

EXAMPLE 2 A tapered drum with a nominal capacity of 50 l, having an external diameter of 415 mm would be designated:

Steel drum OH/T EN 13008 NC-50 l. d_e-415 mm

NOTE Where the drums are intended to be used for the transport of dangerous goods, attention is drawn to the regulatory requirements which govern the transport of those goods in the countries concerned. In Europe, depending upon the mode of transport, this means meeting the requirements of:

European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR);

Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID);

Technical Instructions for the Safe Transport of Dangerous Goods by Air, Document 9284-AN/905 published by the Council of the International Civil Aviation Organization (ICAO);

The International Maritime Dangerous Goods Code (IMDG-Code) published by the International Maritime Organization (IMO).

Table 1 — Dimensions of straight-sided removable head (open head) drums with a nominal capacity of 15 l to 62 l (as illustrated in Figure 1)

Nominal capacity (NC) l	Minimum total capacity (TC) l	Internal diameter (d_i) ±2 mm	Maximum external diameter (d_e) mm	Maximum overall height (h_o) mm
15	17	254	278	356
20	21,2	279	305	400
		305	325	332
25	26,2	279	305	490
		305	325	392
30	31,5	279	305	580
		305	325	464
50	52,5	356	382	680
		360	383	531
		380	400	470
60	62	356	382	680
		360	383	648
		380	403	580
62	64	356	382	710
		360	383	669
		380	403	595

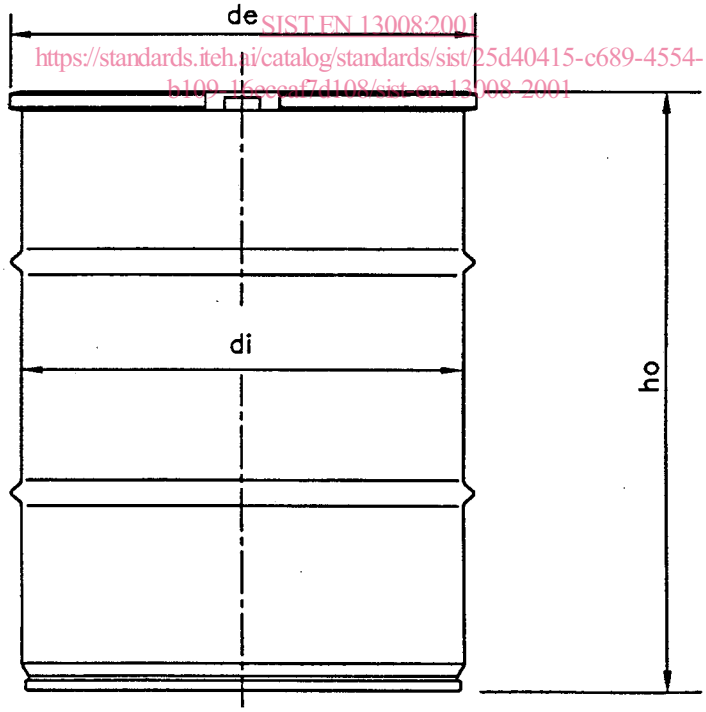

Figure 1 — Straight-sided removable head (open head) drum