



SLOVENSKI STANDARD SIST EN 12714:2010

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Plastics drums - Removable head (open head) drums with a nominal capacity of 25 L to 60 L

Kunststofffässer - Deckelfässer mit einem Nennvolumen von 25 l bis 60 l

(standards.iteh.ai)

Fûts en matière plastique - Fûts à ouverture totale d'une capacité nominale de 25 l à 60 l

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Ta slovenski standard je istoveten z: EN 12714:2009

ICS:

55.140 Ú[åãS[çã • \ã [åãÜ[\^ Barrels. Drums. Canisters

SIST EN 12714:2010

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EUROPEAN STANDARD

EN 12714

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2009

ICS 55.140

Supersedes EN 12714:2000

English Version

Plastics drums - Removable head (open head) drums with a nominal capacity of 25 L to 60 L

Fûts en matière plastique - Fûts à ouverture totale d'une capacité nominale de 25 l à 60 l

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This European Standard was approved by CEN on 27 June 2009.

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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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 12714:2009) 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of an identical text or by endorsement, at the latest by January 2010, and conflicting national standards shall be withdrawn at the latest by January 2010.

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 12714:2000.

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

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EN 12714:2009 (E)

1 Scope

This European Standard specifies the characteristics and dimensions of removable head (open head) plastics drums with a nominal capacity of 25 l to 60 l. This standard is not applicable to injection moulded pails.

2 Terms and definitions

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

2.1 removable head (open head) drum (OH)
flat-ended or convex-ended circular cross-section packaging, the top end of which can be removed as a lid and is closed by means of a closing ring or other device

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

2.3 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.

2.4 total capacity (TC)
volume of water in litres held by the drum, with its lid on, 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.

2.5 overall height (h_o)
height of the finished drum, including the lid, from the base to the highest point

NOTE See Figure 1.

2.6 overall diameter (d_o)
maximum diameter of the drum, where relevant

NOTE See Figure 1.

2.7 minimum opening (d_m)
minimum drum body opening size

NOTE See Figure 1.

2.8 drum mass
mass of the empty drum including all closures

3 Requirements

3.1 Dimensions

The dimensions and tolerances of the drum shall be as listed in Tables 1 and 2 and as shown in Figure 1. The measurements shall be conducted at ambient conditions but shall not be made within 48 h of manufacture.

NOTE Apart from the dimensions specified, there are no restrictions on drum shape.

3.2 Drum mass

For drums with the nominal capacities specified, the mass tolerances shall be as indicated in Table 1.

Table 1 — Drum mass tolerances

Nominal capacity l	Mass tolerance %
25	± 5
30	± 5
50	± 4
60	± 4

NOTE The defined mass should be agreed between the purchaser and the supplier.

3.3 Material identification symbol

All the plastics components, excluding gaskets, shall be permanently marked with the relevant material identification symbol, i.e. the symbol identifying the material from which the component is made.

3.4 Closures

The closure system shall consist of a lid and a closing ring or other device.

NOTE For the purpose of transport and storage, the filled drum should be closed to the manufacturer's recommendations.

The closure system shall incorporate a facility for providing evidence of tampering.

3.5 Materials

The drum shall be manufactured from either high density polyethylene or other suitable plastics materials appropriate to the physical and chemical requirements of its intended use.

3.6 Handling

Provision for manual handling shall be provided.

Adaptations for mechanical handling may be added but, if so, their construction should be adequate for normal static and dynamic handling of filled drums.

3.7 Stacking

The drum shall be capable of being stacked with or without pallets, according to the manufacturer's recommendations.

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3.8 Finish

The external surface finish shall be suitable for the attachment of labels.

NOTE 1 The nature of the internal and external finish should be agreed between the purchaser and the supplier.

NOTE 2 The preferred colour option for the drum body is blue. The use of any other colour should be agreed between the purchaser and the supplier.

4 Designation

A removable head (open head) drum (OH) manufactured in accordance with this Standard shall be designated in the following manner:

Plastics drum OH EN 12714 NC – *Nominal capacity*

EXAMPLE 1 A removable head (open head) drum (OH) manufactured in accordance with this Standard with a nominal capacity of 25 l to 60 l would be designated:

Plastics drum OH EN 12714 NC - 25 l to 60 l.

EXAMPLE 2 A removable head (open head) drum with a nominal capacity of 50 l would be designated:

Plastics drum OH EN 12714 NC - 50 l.

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

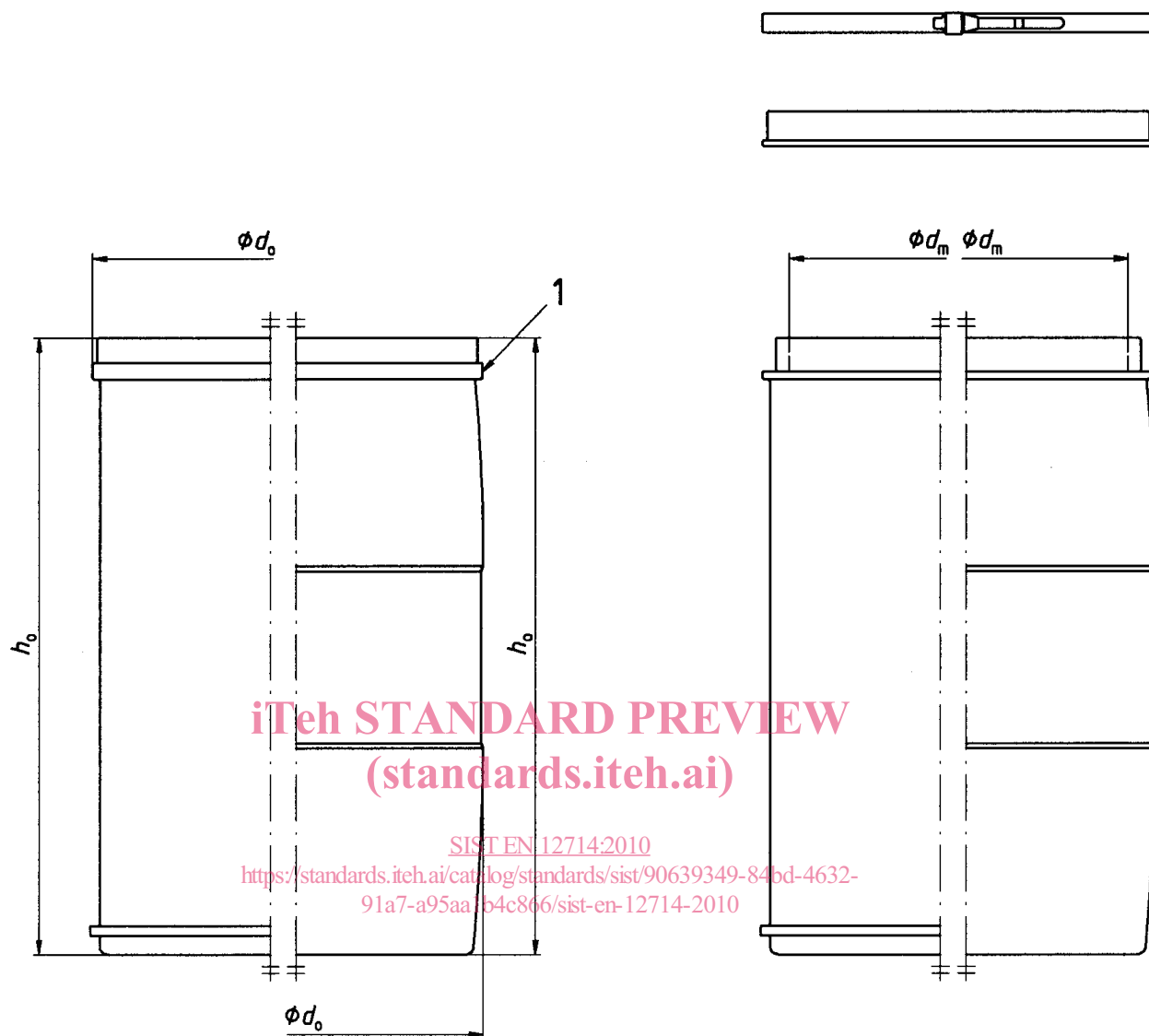
- European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR);
- Regulations concerning the International Carriage of Dangerous Goods by Rail (RID);
- Technical Instructions for the Safe Transport of Dangerous Goods by Air, Document 9284-AN/905 published by the Council of the International Civil Aviation Organization (ICAO);
- The International Maritime Dangerous Goods Code (IMDG-CODE) published by the International Maritime Organization (IMO).

Table 2 — Dimensions of removable (open head) drums with a nominal capacity of 25 l to 60 l

Nominal capacity (NC) l	Minimum total capacity (TC) l	Overall diameter (d_o) mm	Minimum opening (d_m) mm	Overall height ^a (h_o) mm
25	26,5	305 ± 5	250	435 ± 6 ^a
30	31	316 ± 5	250	515 ± 6 ^a
50	52	380 ± 5	250	590 ± 10 ^a
60	62	397 ± 5	310	625 ± 10 ^a

NOTE Dimensions d_o , d_m and h_o are applicable to empty drums.

^a It is intended that these tolerances will be reduced to ± 5 mm at the five year review period.

**Key** d_m Minimum opening d_o Overall diameter h_o Overall height

1 Closing ring

Figure 1 — Removable head (open head) drum with a nominal capacity of 25 l to 60 l