SLOVENSKI STANDARD
SIST EN 12712:2001

01-februar-2001

Plastiļ ne roļ ke - Plastiļ ne roļ ke z nazivno prostornino od 20 do 60 l za optimalni izkoristek palete velikosti 800 mm x 1200 mm, 1000 mm x 1200 mm in 1140 mm x 1140 mm

Plastics jerricans - Jerricans with a nominal capacity of 20 l to 60 l for optimal utilization of pallet sizes 800 mm x 1200 mm, 1000 mm x 1200 mm and 1140 mm x 1140 mm

Kunststoffbehältnisse - Kanister mit einem Nennvolumen von 20 l bis 60 l für optimale Nutzung der Paletten 800 mm x 1200 mm, 1000 mm x 1200 mm und 1140 mm x 1140 mm

Jerricanes en matieres plastiques - Jerricanes d'une capacité nominale de 20 l a 60 l pour utilisation optimale des palettes 800 mm x 1200 mm, 1000 mm x 1200 mm et 1140 mm x 1140 mm

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English version

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This European Standard was approved by CEN on 6 November 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
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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of an identical text or by endorsement, at the latest by July 2000, and conflicting national standards shall be withdrawn at the latest by July 2000.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 plastics drums of 20 l to 225 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 plastics jerricans with a nominal capacity of 20 l to 60 l for optimal utilization of pallet sizes of 800 mm x 1 200 mm, 1 000 mm x 1 200 mm and 1 140 mm x 1 140 mm.

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 12708	Plug/bung closure systems for plastic containers with a nominal capacity of 20 l to 225 l.
prEN 12713:1997	Screw cap closure systems for plastic drums with a nominal capacity of 20 l to 60 l.
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
jerrican
flat-ended or convex-ended rectangular cross-section packaging with at least one handle and openings for filling and emptying in the head not exceeding 70 mm in diameter

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

3.3
brimful capacity (BC)
volume of water in litres held by the jerrican 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 jerrican when filled completely, i.e. following the removal of any air trapped in the jerrican

NOTE Annex A specifies the method for measuring total capacity.

3.5
overall height (h_o)
height of the finished jerrican from the base to the highest point (see Figure 1)

3.6
stacking height (h_s)
effective height of the jerrican in a stack, i.e. the height from the base of a jerrican to the base of a similar jerrican immediately above it in a stack (see Figure 1)

3.7
cross-section (A x B)
maximum dimensions of the jerrican (see Figure 1)

3.8
jerrican mass
mass of the empty jerrican including all closures

4. Requirements

4.1 Dimensions

The dimensions and tolerances of the jerrican shall be as listed in Table 1 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 jerrican shape.

4.2 Jerrican mass

The mass tolerance of the jerrican shall be within ±3 %.

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

4.3 Material identification symbol

The jerrican shall be permanently marked with the relevant material identification symbol, i.e. the symbol identifying the material from which the jerrican is made.

4.4 Closures

Plugs and closures shall be made in accordance with EN 12708 or prEN 12713:1997. When fitted the closure shall not protrude above the overall height of the jerrican.

NOTE For the purpose of transport and storage, the filled jerrican should be closed, using the appropriate tooling, to the manufacturer's recommended closure torque for each type of gasket.

4.5 Materials

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

4.6 Cross-section

The cross-section of the jerrican shall be such as to optimize pallet utilization as listed in Table 1.

4.7 Handling

Provision shall be made for manual handling by attached or inset moulded handles.

4.8 Stacking

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

4.9 Draining

4.9.1 The jerrican shall be designed so as to minimize the residual volume of liquid left in the jerrican after drainage. The residue shall be not more than 0,2 % of total capacity or 100 ml, whichever is the smaller when tested according to either **B.3** (procedure A) or **B.4** (procedure B).

4.9.2 The residue obtained when the jerrican is tested according to procedure B is more dependent on the area and condition of the internal surface of the jerrican than procedure A and therefore may be in excess of that for procedure A.

NOTE The maximum permitted figure should be agreed between the purchaser and the supplier.

4.10 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 jerrican body is blue. The use of any other colour should be agreed between the purchaser and the supplier.

5. Designation

A plastics jerrican manufactured in accordance with this Standard with a nominal capacity (NC) of 20 l to 60 l shall be designated:

Plastics jerrican EN 12712 NC - 20 l to 60 l.

For example, a plastics jerrican with a nominal capacity of 30 l would be designated:

Plastics jerrican EN 12712 NC-30 l

NOTE Where the jerricans 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).