SLOVENSKI STANDARD
SIST EN 13974:2003

01-julij-2003

Toge plastične posode - Specifikacija odstopanj za mere, maso in prostornino

Rigid plastics containers - Specification of tolerance for dimensions, weight and volume

Formstabile Kunststoffbehälter - Grenzabmaße hinsichtlich Abmessungen, Masse und Volumen

Conteneurs en plastique rigide - Spécifications des tolérances sur les dimensions, le poids et le volume

Ta slovenski standard je istoveten z: **EN 13974:2002**

ICS:

55.100	Steklenice. Lonci. Kozarci	Bottles. Pots. Jars
55.140	Sodi. Kovinski sodi. Ročke	Barrels. Drums. Canisters

SIST EN 13974:2003 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 13974

October 2002

ICS 55.100; 55.140

English version

Rigid plastics containers - Specification of tolerance for dimensions, weight and volume

Conteneurs en plastique rigide - Spécifications des tolérances sur les dimensions, le poids et le volume

Formstabile Kunststoffbehälter - Grenzabmaße hinsichtlich Abmessungen, Masse und Volumen

This European Standard was approved by CEN on 19 August 2002.

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 Management Centre 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 Management Centre 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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN 13974:2002 E

Contents

Foreword

This document EN 13974:2002 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 April 2003, and conflicting national standards shall be withdrawn at the latest by April 2003.

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The purpose of packaging is the containment, protection, distribution and promotion of products. A major role is prevention of product damage and/or product waste.

This European Standard was developed to test the design of a container and to provide requirements and test procedures to meet recommendations on capacities.

1 Scope

This European Standard specifies tolerances for dimensions, mass and volume of plastic bottles and jars with a nominal capacity up to 5 l, of plastics canisters/jerricans with a nominal volume up to 20 l and for plastic pails up to 60 l.

NOTE Plastics bottles, jars, canisters and jerricans and pails are referred to as “containers” in this standard.

2 Terms and definitions

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

2.1
plastics bottle
rigid plastics container with shoulders and a small aperture, and generally blow moulded

2.2
plastics jar
rigid plastics container of any base shape, with an aperture of area similar to that of the base

2.3
plastics canister/jerrican
rigid plastics container with mostly rectangular or circular section

NOTE An aperture on the top or side of the body and a carrying device is usual.

2.4
pail
rigid plastics container of any shape, the top of which is greater than or equal to the area of the bottom. The container has a lid with or without a seal and is generally nestable

2.5
nominal capacity
capacity for which the container is designed

2.6
total capacity
total internal volume of the closed container

2.7
brimful capacity
volume of water in litres held by the container when filled through the filling orifice to the point of overflowing

3 Requirements

3.1 General

The requirements below refer to empty containers. The measurements shall not be made within 48 h after manufacture and shall be conducted at ambient conditions unless otherwise stated.

3.2 Tolerance levels for the brimful and total capacity

The absolute values for each individual container shall be as stated in Tables 1 to 3.

Table 1 — Bottles/jars up to 5 l

Volume (V)	Nominal capacity	Minimum brimful capacity	Maximum brimful capacity
Millilitres (ml)	millilitres (ml)		% of nominal capacity
V ≤ 15	up to 15	[a]	+ 10
15 < V ≤ 100	up to 100	[a]	+ 10
100 < V ≤ 300	up to 300	[a]	+ 10
300 < V ≤ 750	up to 750	[a]	+ 5
750 < V ≤ 2 000	up to 2 000	[a]	+ 2,5
2 000 < V ≤ 5 000	up to 5 000	[a]	+ 2
[a] The minimum brimful capacity may be regulated by local government regulations.			

Table 2 — Canister/Jerricans up to 20 l

Volume (V)	Nominal capacity	Minimum brimful capacity	Maximum total capacity
Litres (l)	Litres (l)	% of nominal capacity	% of nominal capacity
V ≤ 3 l	up to 3	+ 6	+ 20
3 < V ≤ 5 l	up to 5	+ 5	+ 20
5 < V ≤ 10 l	up to 10	+ 5	+ 15
10 < V ≤ 20 l	up to 20	+ 4	+ 15

Table 3 — Pails up to 60 l

Volume (V)	Nominal capacity	Minimum brimful capacity	Maximum total capacity
Litres (l)	Litres (l)	% of nominal capacity	% of nominal capacity
V ≤ 3 l	up to 3	+ 6	+ 25
3 < V ≤ 5 l	up to 5	+ 5	+ 20
5 < V ≤ 10 l	Up to 10	+ 3	+ 15
10 < V ≤ 20 l	Up to 20	+ 2	+ 10
20 < V ≤ 60 l	Up to 60	+ 1	+ 6