

SLOVENSKI STANDARD

SIST EN 13045:2001

01-februar-2001

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Packaging - Flexible cylindrical plastic tubes - Dimensions and tolerances

Packmittel - Zylindrische Kunststofftuben - Maße und Grenzabmaße

Emballage - Tubes souples cylindriques plastiques - Dimensions et tolérances

Ta slovenski standard je istoveten z: EN 13045:2000

[SIST EN 13045:2001](https://standards.iteh.ai/catalog/standards/sist/99e5d15c-c5e2-4a40-b672-e63bfl d08866/sist-en-13045-2001)

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ICS:

55.120

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Cans. Tins. Tubes

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13045

July 2000

ICS 55.120

English version

Packaging - Flexible cylindrical plastic tubes - Dimensions and tolerances

Emballage - Tubes souples cylindriques plastiques -
Dimensions et tolérances

Packmittel - Zylindrische Kunststofftuben - Maße und
Grenzabmaße

This European Standard was approved by CEN on 15 June 2000.

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 Central Secretariat 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 Central Secretariat 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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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 January 2001, and conflicting national standards shall be withdrawn at the latest by January 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.

It is based on the professional recommendations of the European Tube Association (ETA).

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1 Scope

This standard specifies the diameter, length, wall thickness and shoulder geometry of cylindrical plastic flexible tubes.

It is applicable to tubes used for packing pharmaceutical, cosmetic, hygiene, food and other domestic and industrial products.

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 (including amendments).

EN 12374 Packaging - Flexible tubes - Terminology

EN ISO 11683 Packaging - Tactile warnings of danger - Requirements (ISO 11683:1997)

3 Terms and definitions

For the purposes of this standard, the terms and definitions in EN 12374 and the following apply:

3.1
nominal diameter, D

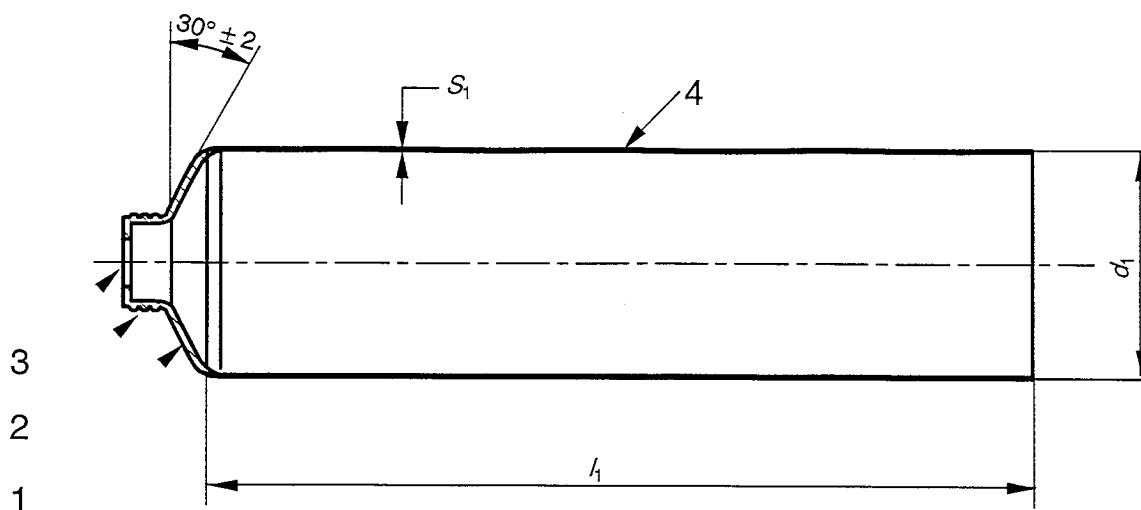
diameter d_1 of the tube measured at the shoulder (see in Figure 1).

3.2
nominal length, L

length l_1 , shown in fig.1. It is the measured distance between the shoulder and the open end of the tube.

3.3
thickness of the sleeve, S_1

thickness of the body wall of the tube.

**Key**

- 1 Shoulder
- 2 Nozzle
- 3 Orifice
- 4 Body (Tube sleeve)

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Figure 1 — Cylindrical plastic tube

4 Dimensions

All tube dimensions shall be in accordance with Table 1:

Table 1 — Dimensions (measurements in mm)

Nominal Diameter	d ₁		l ₁ (1)	S ₁	
D	Diameter	Tolerance	≤100 ± 1mm > 100 ± 1 %	Thickness	Tolerance
13,5	13,5	± 0,4	40 to 70	0,4	+0,02 - 0,04
16	16		55 to 80		
19	19		55 to 90		
22	22	+ 0,3	70 to 120	0,4 to 0,5	+ 0,02 - 0,05
25	25		80 to 135		
30	30		80 to 150		
35	35		80 to 165		
40	40	+ 0,1	90 to 180	0,5	+ 0,02 - 0,06
50	50	- 0,6	120 to 200	0,5 to 0,6	

(1) The figures below represent the range of tube lengths that can be produced for each tube diameter.