

SLOVENSKI STANDARD SIST EN 13046:2001

01-februar-2001

Embalaža - Upogibne valjaste kovinske tube - Mere in odstopanja

Packaging - Flexible cylindrical metallic tubes - Dimensions and tolerances

Packmittel - Zylindrische Metalltuben - Maße und Grenzabmaße

Emballage - Tubes souples métalliques cylindriques Dimensions et tolérances

Ta slovenski standard je istoveten z: EN 13046:2000

SIST EN 13046:2001

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ICS:

55.120 Ú|[^ç¾\^ÈV à^ Cans. Tins. Tubes

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13046

July 2000

ICS 55.120

English version

Packaging - Flexible cylindrical metallic tubes - Dimensions and tolerances

Emballage - Tubes souples métalliques cylindriques - Dimensions et tolérances Packmittel - Zylindrische Metalltuben - 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

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A E P U U U U A NA LO V E N E O N E N E O N E N E O N

PHENTY PO METER TRACKING

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of an identical text or by endorsement, at the latest by January 2001, and conflicting national standards shall be withdrawn at the latest by January 2001.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 diameters, lengths, wall thicknesses, shoulder thicknesses and geometry of cylindrical metallic collapsible 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).

ISO 209-1

Wrought aluminium and aluminium alloys - Chemical composition and forms of products -

Part 1: Chemical composition

EN ISO 11683

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

EN 12374

Packaging - Flexible tubes - Terminology

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3 Terms and definitions

(standards.iteh.ai)

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

3.1

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nominal diameter, D

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diameter $d_{1,}$ of the tube measured at the shoulder (see in Figure 1).

3.2

nominal length, L

length I_{1} , shown in figure 1. It is the measured distance between the shoulder and the open end of the tube.

3.3

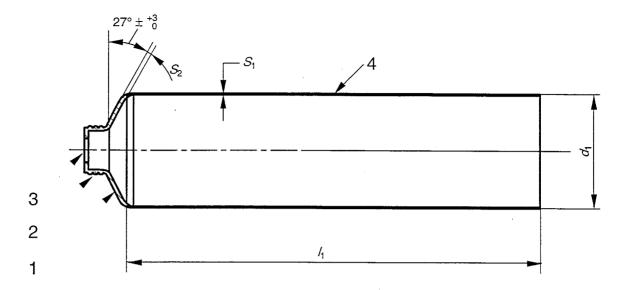
thickness of the sleeve, S₁

thickness of the body wall of the tube.

3.4

thickness of the shoulder, So

thickness of the wall measured at the shoulder.



Key

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- 1 Shoulder
- (standards.iteh.ai)
- 2 Nozzle
- 3 Orifice
- 4 Body (Tube sleeve)

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Figure 1 — Cylindrical metallic tube

4 Dimensions

All tube dimensions shall be in accordance with table 1:

Table 1 — Dimensions (measurements in mm)

| rabio i binicipions (measurements in mini) | | | | | | | | |
|--|-------------------------------|------------------------|--------------------|-----------------|------------------------|-----------|--|--|
| Nominal diameter | d ₁ + 0,1 - 0,2 | Standard length (a) | Wall thickness (b) | | Shoulder thickness (b) | | | |
| | | " '' | S ₁ | | S ₂ | | | |
| | | l ₁ ± 0,5 | - • | | | | | |
| | | | Thickness | Tolerance | Thickness | Tolerance | | |
| | • | | | | | | | |
| | | | | | | | | |
| 11 | 11 | Up to 55 | | | | | | |
| 13,5 | 13,5 | Up to 90 | | | | | | |
| | | ٠, ١٥٠٥ | | | | | | |
| 16 | 16 | Up to 100 | 0,08 | + 0,03 | 0,4 | + 0,2 | | |
| 19 | 19 | Up to 120 4 | ANDAR | D PRE | VIEW | | | |
| 19 | 19 1 | - | | | | 0 | | |
| 22 | 22 | Up to 130 | andard | s.ite,b₁.ai | | | | |
| | | - F 10 .00 | | | | | | |
| 25 | 25 | Up to 150 | | <u>)46:2001</u> | | | | |
| | | | catalog/standard | | | 84- | | |
| 28 | 28 | Up to 170df | ob995d6dd/sist- | en-13046-2001 | 0,5 | | | |
| 30 | 30 | Up to 175 | 0,10 | | | | | |
| | | Op 10 170 | 0,10 | | | | | |
| 32 | 32 | Up to 175 | | | | | | |
| | | | | | | | | |
| 35 | 35 | Up to 180 | | + 0,04 | 0,6 | + 0,3 | | |
| 38 | 38 | Up to 180 | | | | | | |
| | 50 | op to 160 | | | | | | |
| 40 | 40 | Up to 200 | 0,12 | - 0,01 | | 0 | | |
| | | | - | | | | | |
| 45 | 45 | Up to 200 | | | | | | |
| F0 | | 11.1.000 | | | | | | |
| 50 | 50 | Up to 200 | | + 0,06 | 0,7 | | | |
| | | | 0,13 | - 0,01 | | | | |
| | | | 5,10 | 0,01 | | | | |
| a) It is too | hnically noseil | olo to produce | . 41 1 . | Hb = = - : f: - | | | | |

^a) It is technically possible to produce tubes longer than specified here. If required, the chosen length shall be the subject of a separate agreement between customer and supplier.

b) Without internal lacquer or external decoration.