



SLOVENSKI STANDARD

SIST EN 16285:2013

01-maj-2013

Embalaza - Prožne aluminijaste tube - Preskusne metode za merjenje deformacije telesa aluminijaste tube (preskus z giljotino)

Packaging - Flexible aluminium tubes - Test method to measure the deformation of the aluminium tube body (Guillotine test)

Packmittel - Aluminiumtuben - Prüfverfahren zur Messung der Verformung des Mantels von Aluminiumtuben (Guillotine-Prüfung)

Emballage - Tubes souples en aluminium - Méthode d'essai pour mesurer la déformation du corps du tube en aluminium (test Guillotine)

<https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013>

Ta slovenski standard je istoveten z: EN 16285:2013

ICS:

55.120	Pločevinke. Tube	Cans. Tins. Tubes
77.150.10	Aluminijski izdelki	Aluminium products

SIST EN 16285:2013

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 16285:2013](#)

<https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013>

EUROPEAN STANDARD

EN 16285

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2013

ICS 55.120

English Version

Packaging - Flexible aluminium tubes - Test method to measure the deformation of the aluminium tube body (Guillotine test)

Emballage - Tubes souples en aluminium - Méthode d'essai pour mesurer la déformation du corps du tube en aluminium (essai Guillotine)

Packmittel - Aluminiumtuben - Prüfverfahren zur Messung der Verformung des Mantels von Aluminiumtuben (Guillotine-Prüfung)

This European Standard was approved by CEN on 21 December 2012.

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

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

[SIST EN 16285:2013](https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013)

<https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013>



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
Foreword.....	3
1 Scope	4
2 Testing equipment	4
3 Requirements.....	5
4 Execution.....	5
5 Test report	6

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 16285:2013](https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013)
<https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013>

Foreword

This document (EN 16285:2013) 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 August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

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.

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

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 16285:2013](https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013)

<https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013>

EN 16285:2013 (E)

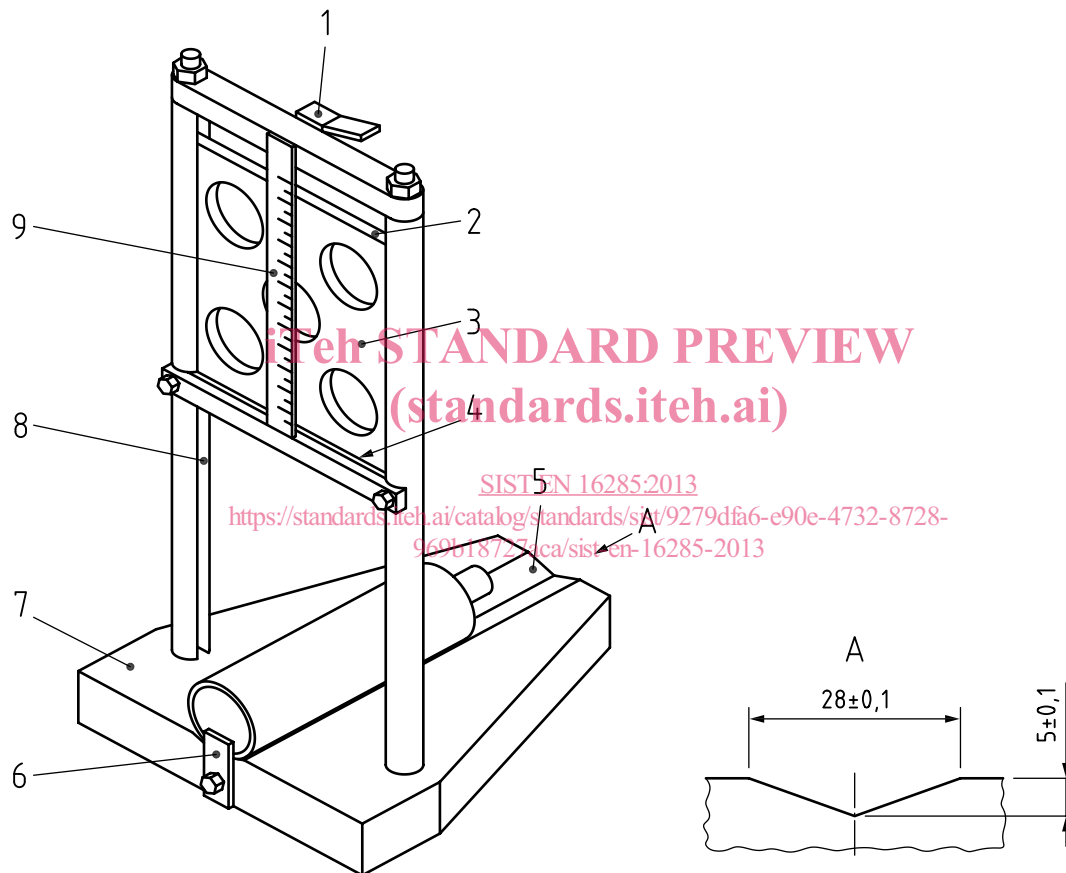
1 Scope

This European Standard specifies a method to measure the deformation of the aluminium tube body.

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

2 Testing equipment

The testing equipment (see Figure 1) shall conform to the information given below. Appropriate data should be chosen where no details are given.



Key

- 1 locking lever for drop weight
- 2 upper edge of drop weight
- 3 drop weight
- 4 lower edge of drop weight burr-free
- 5 prism-shaped support
- 6 limit stop
- 7 base plate
- 8 width of guide groove
- 9 scale

Figure 1 – Test equipment

With the drop weight locked in position (the situation shown), the lower edge of the drop weight is in line with the value '0' on the scale. If the drop weight is released and there is no test piece, the drop weight will rest on the base plate. The upper edge of the drop weight then corresponds to the value '0' on the scale. The scale is 0 mm to 120 mm. The width of the guide groove is $5,3_0^{+0,2}$ mm.

The height of the fall of the drop weight is (115 ± 1) mm. The thickness of the drop weight is $5_0^{+0,1}$ mm. The total weight is $(25 \pm 0,1)$ g or $(75 \pm 0,1)$ g.

The distance between the drop weight and the limit stop is 32 mm.

3 Requirements

When carrying out tests according to Clause 4, the deformation values shall conform to the values given in Table 1.

Table 1 — Deformation values

Nominal diameter of tube mm	Weight of drop weight g	Deformation values	
		min	max
11	25	1	4
13,5		4	7
16		5	9
19		8	12
22		11	15
25	75	8	13
28		9	14
30		11	17
32		13	20
35		16	24
38		19	27
40		23	31
45		28	36
50		33	43

a) The deformation values are based on tubes with and without internal lacquer. Tighter tolerances are subject to agreement between the producer and the user.

4 Execution

Testing is carried out on an empty tube at room temperature. The drop weight having the appropriate test weight for the tube diameter as given in the table is raised until the locking lever engages. The tube to be tested is placed in the prism-shaped support of the base plate in such a way that it abuts against the limit stop. Using the locking lever, the drop weight is released manually so that it drops down. In doing so it compresses the tube being tested by an amount equal to its deformation value. This is read off the scale.

5 Test report

The test report shall contain the following information:

- a) reference to this standard and, if necessary, a specification for the method of sampling and acceptance of the batch;
- b) the complete identification of the batch and of the tubes checked;
- c) the date of production;
- d) the number of tubes checked;
- e) the number of defects;
- f) the test result;
- g) all factors which could have affected the results or all operating details not specified in this standard;
- h) date, place of test and name of tester.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 16285:2013](https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013)

<https://standards.iteh.ai/catalog/standards/sist/9279dfa6-e90e-4732-8728-969b18727aca/sist-en-16285-2013>