



SLOVENSKI STANDARD
SIST EN 16565:2014

01-november-2014

Embalaža - Prožne tube - Preskusna metoda za ugotavljanje orientacije zaskočnega pokrova

Packaging - Flexible tubes - Test method to determine the orientation of the flip-top cap

Verpackung - Tuben - Prüfmethode zur Bestimmung der Ausrichtung des Klappdeckelverschlusses

Emballage - Tubes souples - Méthodes d'essai pour déterminer l'orientation de l'obturateur à charnière

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 16565:2014](https://standards.iteh.ai/catalog/standards/sist/8aaf2096-8011-4e8d-b57f-6400e6197051/sist-en-16565-2014)

Ta slovenski standard je istoveten z: EN 16565:2014

ICS:

55.120

Pločevinke. Tube

Cans. Tins. Tubes

SIST EN 16565:2014

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 16565:2014

<https://standards.iteh.ai/catalog/standards/sist/8aaf2096-8011-4e8d-b57f-b400e8197051/sist-en-16565-2014>

EUROPEAN STANDARD

EN 16565

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2014

ICS 55.120

English Version

Packaging - Flexible tubes - Test method to determine the orientation of the flip-top cap

Emballage - Tubes souples - Méthode d'essai pour la détermination de l'orientation de l'obturateur à charnière

Verpackung - Tuben - Prüfverfahren zur Bestimmung der Ausrichtung des Klappdeckelverschlusses

This European Standard was approved by CEN on 18 July 2014.

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 16565:2014](https://standards.iteh.ai/catalog/standards/sist/8aaf2096-8011-4e8d-b57f-b400e8197051/sist-en-16565-2014)

<https://standards.iteh.ai/catalog/standards/sist/8aaf2096-8011-4e8d-b57f-b400e8197051/sist-en-16565-2014>



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents		Page
Foreword.....		3
1 Scope		4
2 Test principle and testing equipment.....		4
3 Execution		5
4 Test report		6
Bibliography		7

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 16565:2014](https://standards.iteh.ai/catalog/standards/sist/8aaf2096-8011-4e8d-b57f-b400e8197051/sist-en-16565-2014)

<https://standards.iteh.ai/catalog/standards/sist/8aaf2096-8011-4e8d-b57f-b400e8197051/sist-en-16565-2014>

Foreword

This document (EN 16565:2014) 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 February 2015 and conflicting national standards shall be withdrawn at the latest by February 2015.

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 organizations 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 16565:2014](https://standards.iteh.ai/catalog/standards/sist/8aaf2096-8011-4e8d-b57f-b400e8197051/sist-en-16565-2014)

<https://standards.iteh.ai/catalog/standards/sist/8aaf2096-8011-4e8d-b57f-b400e8197051/sist-en-16565-2014>

EN 16565:2014 (E)

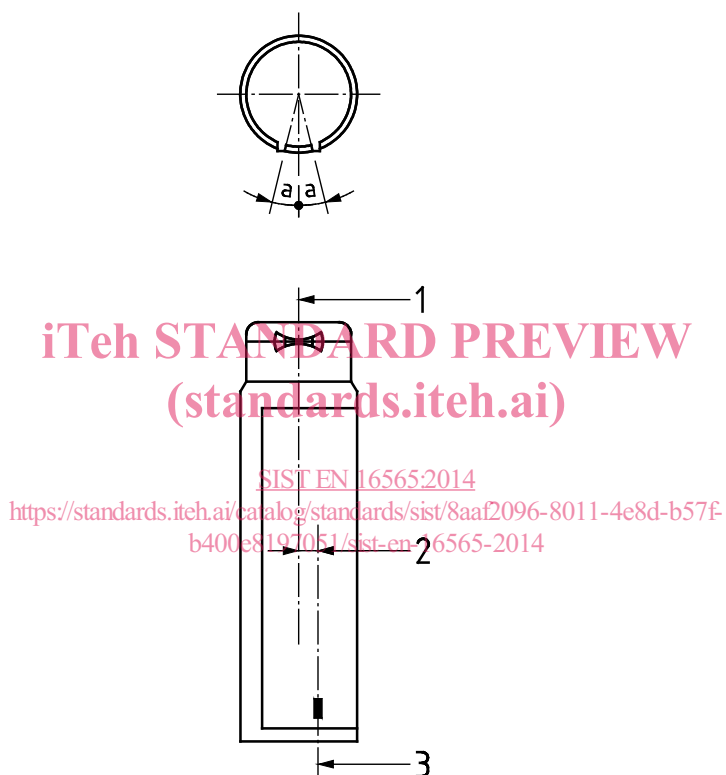
1 Scope

This European Standard specifies a method to test the orientation of the flip-top cap on flexible tubes.

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

2 Test principle and testing equipment

The test principle is described in Figure 1.



Key

- a maximum deviation in mm/degree
- 1 axis of symmetry of cap hinge
- 2 deviation
- 3 axis of symmetry of back printed face

Figure 1 — Test principle

Any test equipment which is able to accurately measure the correct orientation of the flip-top cap can be used. An example for a suitable test device is given in Figure 2.

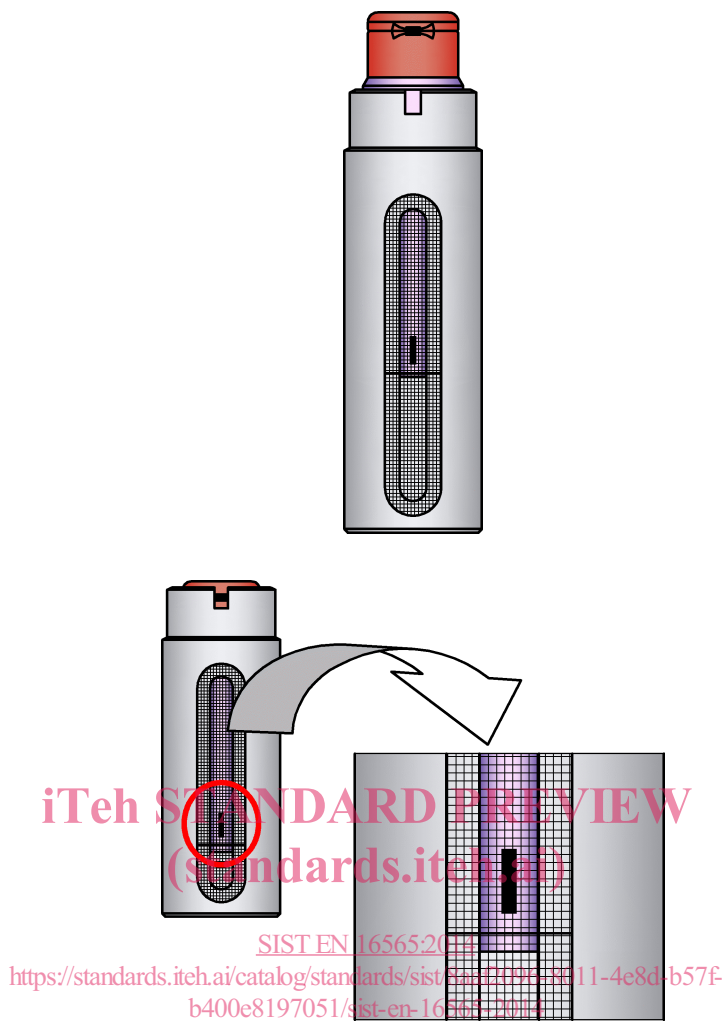


Figure 2 — Example for test device and measurement

3 Execution

Take samples of the finished product (empty tube including flip-top cap).

Measure the deviation with the test device.

Read the deviation.

The maximum deviation shall stay within the limits given in Table 1.

Table 1 — Maximum deviation in mm and degree depending on tube diameter

Tube diameter (in mm)	Maximum deviation (in ± mm)	Maximum deviation (in ± degree)
19	3	18,1
22	3	15,6
25	3	13,8
28	3	12,3
30	3	11,5
32	3	10,7
35	3	9,8
38	4	12,1
40	4	11,5
45	4	10,2
50	6	13,8
56	6	12,3
60	6	11,5

Conversion formula:

$$X = mm \times 360 / \pi \times D$$

X = value in degrees

mm = value in mm

D = tube diameter in mm

π = 3,14

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 16565:2014

<https://standards.iteh.ai/catalog/standards/sist/8aaf2096-8011-4e8d-b57f-b400e8197051/sist-en-16565-2014>

4 Test report

The test report shall contain the following information:

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