



SLOVENSKI STANDARD

SIST EN 16283:2013

01-julij-2011

Embalaza - Prozne aluminijaste tube - Preskusne metode za merjenje sile, potrebne za predrtje membrane

Packaging - Flexible aluminium tubes - Test method to measure the force to pierce the membrane

Packmittel - Aluminiumtuben - Prüfverfahren zur Messung der Kraft zur Durchdringung der Membran

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Emballage - Tubes souples en aluminimium - Méthode d'essai pour mesurer la force de percer la membrane

[SIST EN 16283:2013](#)

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Ta slovenski standard je istoveten z: EN 16283:2013

ICS:

55.120

Pločevinke. Tube

Cans. Tins. Tubes

77.150.10

Aluminijski izdelki

Aluminium products

SIST EN 16283:2013

en,fr,de

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EUROPEAN STANDARD

EN 16283

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2013

ICS 55.120

English Version

Packaging - Flexible aluminium tubes - Test method to measure the force to pierce the membrane

Emballage - Tubes souples en aluminium - Méthode d'essai pour mesurer la force de percer la membrane

Packmittel - Aluminiumtuben - Prüfverfahren zur Messung der Kraft zur Durchdringung der Membran

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

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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.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 16283:2013) 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.

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EN 16283:2013 (E)

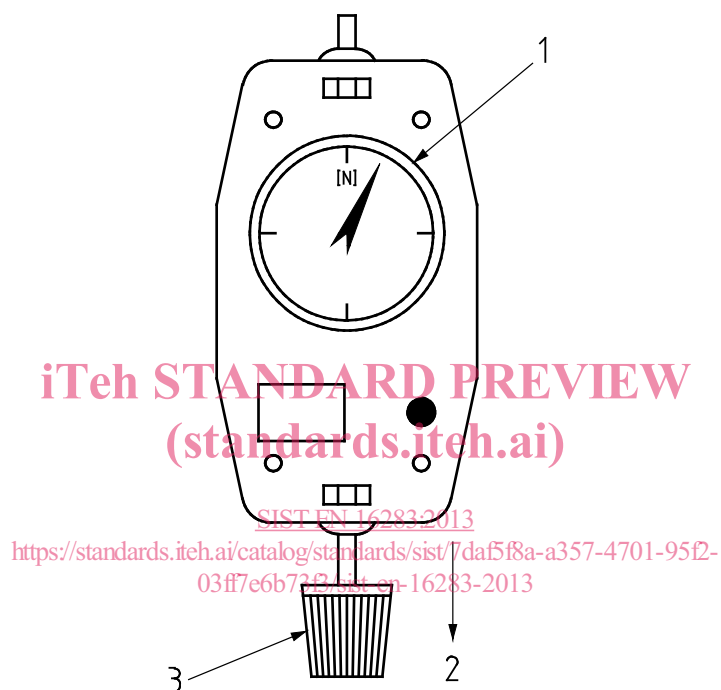
1 Scope

This European Standard specifies a method to test the membrane piercing of aluminium tubes.

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

2 Testing equipment

An example for a suitable test device is given in Figure 1.



Key

- 1 force in N
- 2 compression
- 3 tube cap

Figure 1 — Test equipment

3 Execution

Take samples of the finished product (empty tube). Before zero setting of the instrument, apply the cap that is used for the final product on the threaded part of the instrument. Carry out the membrane piercing with the spike integrated in the cap, pressing the membrane until it is pierced. Record the value of the maximum force indicated on the instrument. The acceptable value shall not exceed 50 N.

A visual inspection shall be made to make sure that the piercing is complete and that no parts of the membrane went off during the piercing process.

4 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.

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Bibliography

- [1] EN 12374, *Packaging — Flexible tubes — Terminology*

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