

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

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ICS 55.120

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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

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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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of an identical text or by endorsement, at the latest by August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

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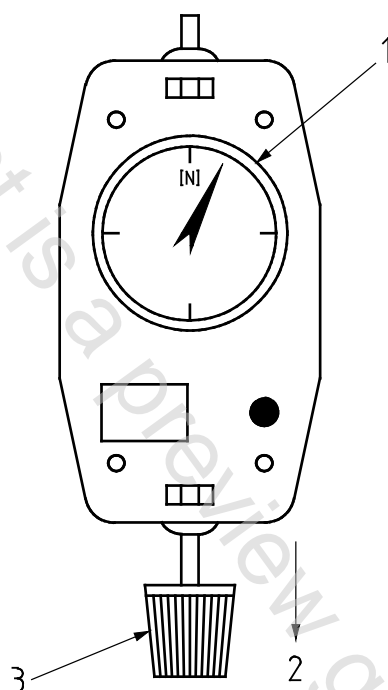
1 Scope

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.