
Embalaža - Upogibne aluminijeve tube - Metoda za določevanje debeline stene

Packaging - Flexible aluminium tubes - Wall thickness determination method

Packmittel - Aluminiumtuben - Bestimmung der Manteldicke

Emballage - Tubes souples en aluminium - Méthode de détermination de l'épaisseur de paroi

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Ta slovenski standard je istoveten z: EN 12375:1998

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ICS:

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

SIST EN 12375:2000**en**

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EUROPEAN STANDARD
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EN 12375

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ICS 55.120

Descriptors: packing, flexible packaging, metal packaging, aluminium, tube, tests, tickness measurements

English version

Packaging - Flexible aluminium tubes - Wall thickness
determination method

Emballage - Tubes souples en aluminium - Méthode de
détermination de l'épaisseur de paroi

Packmittel - Aluminiumtuben - Bestimmung der
Manteldicke

This European Standard was approved by CEN on 24 July 1998.

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.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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of an identical text or by endorsement, at the latest by February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

It is based on the professional recommendations of the European Tube Association (ETA).

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.

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STANDARD PREVIEW
SIST EN 12375:2000
Packaging
Requirements for the design and construction of
flexible intermediate bulk containers (FIBCs)
of type 1 and type 2
EN 12375:1998



1 Scope

This standard specifies a method of determination of the thickness of the tube body material of aluminium 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.

- prEN 13046 : Packaging - Flexible Cylindrical Metallic Tubes - Dimensions and Tolerances
prEN 13047 : Packaging - Flexible Conical Metallic Tubes - Dimensions and Tolerances

3 Principle

The measurement of the thickness of the tube wall on prepared samples using a micrometer or a comparable measuring appliance.

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4 Apparatus

- 4.1 Micrometer, with one flat and one spherical face accurate to 0,01 mm.
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- 4.2 Scissors.
- 4.3 Plastics cylinder, round and smooth, of approximately the same dimensions as the tubes.
- 4.4 Solvent capable of dissolving any external enamel from the surface of tubes.

5 Procedure

5.1 Preparation of samples

Using the scissors, cut the shoulders from the tubes. Then cut the tube bodies lengthwise, into as many strips, 15 mm wide, as possible.

Dissolve any external enamel from the strips with the solvent (any lacquer film on the inside of the tube is ignored).

When free of all enamel, flatten the strips of tube body material with the plastics cylinder.

5.2 Measurement procedure

Measure the wall thickness with the micrometer at a distance of approximately 10 mm from either end of each strip.

All measurements shall be made at a temperature of between 10°C and 25°C.

6 Test report

The test report shall contain the following information :

- a) The 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 nature of the material.
- d) The test temperature.
- e) The name of the test instrument.
- f) The results of the measurements with indication of the position of the points checked and the number of the measurements.
- g) The number of results falling outside the standard specified limits set out in prEN 13046 and prEN 13047.
- h) If applicable, acceptance or refusal of the batch depending on the specifications (see a)).
- i) All factors which can have affected the results and which are not specified in this standard.
- j) Date, place of test and name of tester.

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