



SLOVENSKI STANDARD

SIST EN 15653:2009

01-junij-2009

Embalaza - Prozne aluminijaste tube - Preskusne metode za preverjanje odpornosti notranjih prevlek proti amoniaku

Packaging - Flexible aluminium tubes - Test method to check the resistance of the
internal protective coating against ammonia

Packmittel - Aluminiumtuben - Prüfverfahren zur Ermittlung der Beständigkeit des
Innenschutzlackes gegen Ammoniak

Emballage - Tubes souples en aluminium - Méthode de détermination de la résistance
du revêtement de protection intérieur à l'ammoniaque

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Ta slovenski standard je istoveten z: EN 15653:2009

ICS:

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

SIST EN 15653:2009

en,fr,de

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EUROPEAN STANDARD

EN 15653

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2009

ICS 55.120

English Version

Packaging - Flexible aluminium tubes - Test method to check the resistance of the internal protective coating against ammonia

Emballage - Tubes souples en aluminium - Méthode de détermination de la résistance du vernis intérieur à l'ammoniac

Packmittel - Aluminiumtuben - Prüfverfahren zur Ermittlung der Beständigkeit des Innenschutzlackes gegen Ammoniak

This European Standard was approved by CEN on 21 February 2009.

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 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 Management Centre has the same status as the official versions.

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

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

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Foreword

This document (EN 15653:2009) 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 September 2009, and conflicting national standards shall be withdrawn at the latest by September 2009.

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.

It is based on the professional recommendations of the European Tube Manufacturers Association (ETMA)

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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EN 15653:2009 (E)**1 Scope**

The ammonia test is a quick test to check the chemical resistance of the internal protective coating of aluminium tubes. The test is used for flexible aluminium tubes for ammonia containing fillings and as an introductory test for newly developed internal protective coatings.

2 Test device / media

- Aqueous solution of ammonia with a mass fraction of (20-25)% inclusive;
- Ventilated hood;
- Test tubes and special holder;
- Rack;
- Scissors;
- Protective glasses.

3 Test operation

Stand the samples on the tube cap, fill them with the test solution under the ventilated hood and put open into a rack. Immediately cover the open ends of the tubes. After a storage period of 2 h at room temperature empty the test solution from the test samples into the test tubes. Rinse the samples with water and carefully cut open with the scissors.

4 Evaluation of the internal coating

The internal protective coating shall not show any large blisters or softening (scratch test). Occasional blisters (up to a diameter of 5 mm) and detachment of the internal protective coating at the cut edges are of no concern and can therefore be accepted.

5 Test report

The test report shall contain the following information:

- a) reference to this standard;
- b) complete identification of the batch and of the tubes checked;
- c) description and dimensions of the samples;
- d) nature of the internal protective coating;
- e) concentration of the ammonia solution;
- f) test results, including the number of defects;
- g) number of samples checked;
- h) if necessary, acceptance or refusal of the batch depending on the specifications;
- 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.