

Liimid. Hüdroksüülarvu ja/või hüdroksüülrühma sisalduse määramine

Adhesives - Determination of hydroxyl value and/or hydroxyl content

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1240:2011 sisaldab Euroopa standardi EN 1240:2011 ingliskeelset teksti.

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Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 1240:2011 consists of the English text of the European standard EN 1240:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.05.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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English Version

Adhesives - Determination of hydroxyl value and/or hydroxyl content

Adhésifs - Détermination de la valeur hydroxyle et/ou de la teneur en hydroxyle

Klebstoffe - Bestimmung der Hydroxylzahl und/oder des Hydroxylgehaltes

This European Standard was approved by CEN on 10 March 2011.

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.

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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Principles	4
5 Reagents	5
6 Apparatus	5
7 Procedures	5
8 Expression of results	6
9 Test report	7

Foreword

This document (EN 1240:2011) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by AENOR.

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of an identical text or by endorsement, at the latest by October 2011, and conflicting national standards shall be withdrawn at the latest by October 2011.

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.

This document supersedes EN 1240:1998.

The main modifications regarding the previous version are in the Foreword, Normative References and 6.5.

SAFETY STATEMENT— Persons using this document should be familiar with the normal laboratory practice, if applicable. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any regulatory conditions.

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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, 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.

1 Scope

This European Standard specifies a method to determine the hydroxyl value and/or the hydroxyl content of adhesives, adhesive components, their basic constituents and related products. This method can also be used to determine the hydroxyl value and/or the hydroxyl content of surface protection systems of concrete.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 923:2005+A1:2008, *Adhesives — Terms and definitions*

EN 1067, *Adhesives — Examination and preparation of samples for testing*

EN 1241, *Adhesives — Determination of acid value*

EN ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling (ISO 15528:2000)*

EN ISO 1042:1999, *Laboratory glassware — One-mark volumetric flasks (ISO 1042:1998)*

EN ISO 3696:1995, *Water for analytical laboratory use — Specification and test methods (ISO 3696:1987)*

EN ISO 15605, *Adhesives— Sampling (ISO 15605:2000)*

EN ISO 385:2005, *Laboratory glassware — Burettes (ISO 385:2005)*

ISO 648:2008, *Laboratory glassware — Single-volume pipettes (ISO 648:2008)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 923:2005+A1:2008 and the following apply.

3.1
hydroxyl value
number of milligrams of potassium hydroxide necessary to neutralize the acetic acid which will combine by acetylation with 1 g of the product under test

3.2
hydroxyl content
mass fraction in percentage of hydroxyl groups (-OH) contained in the product under test

4 Principles

Acetylation of the hydroxyl groups is carried out by acetic anhydride on a pyridine solution of the product under test.

The excess acetic anhydride is hydrolyzed by the addition of water and the resultant acetic acid titrated with aqueous potassium hydroxide solution.