

Spojivá náterových látok. Stanovenie hydroxylového čísla. Časť 1: Titračná metóda bez použitia katalyzátora (ISO 4629-1: 2016).

STN EN ISO 4629-1

67 3041

Binders for paints and varnishes - Determination of hydroxyl value - Part 1: Titrimetric method without using a catalyst (ISO 4629-1:2016)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/16

Obsahuje: EN ISO 4629-1:2016, ISO 4629-1:2016

Oznámením tejto normy sa ruší STN EN ISO 4629 (67 3041) z novembra 2001

EUROPEAN STANDARD NORME EUROPÉENNE

EN ISO 4629-1

EUROPÄISCHE NORM

June 2016

ICS 87.060.20

Supersedes EN ISO 4629:1998

English Version

Binders for paints and varnishes - Determination of hydroxyl value - Part 1: Titrimetric method without using a catalyst (ISO 4629-1:2016)

Liants pour peintures et vernis - Détermination de l'indice d'hydroxyle - Partie 1: Méthode titrimétrique sans catalyseur (ISO 4629-1:2016)

Bindemittel für Beschichtungsstoffe - Bestimmung der Hydroxylzahl - Teil 1: Titrimetrisches Verfahren ohne Katalysator (ISO 4629-1:2016)

This European Standard was approved by CEN on 19 May 2016.

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.

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.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 4629-1:2016 (E)

Contents	Page
European foreword	3

European foreword

This document (EN ISO 4629-1:2016) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 139 "Paints and varnishes" the secretariat of which is held by DIN.

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 December 2016, and conflicting national standards shall be withdrawn at the latest by December 2016.

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 ISO 4629:1998.

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, 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 the United Kingdom.

Endorsement notice

The text of ISO 4629-1:2016 has been approved by CEN as EN ISO 4629-1:2016 without any modification.

INTERNATIONAL STANDARD

ISO 4629-1

First edition 2016-06-01

Binders for paints and varnishes — Determination of hydroxyl value —

Part 1:

Titrimetric method without using a catalyst

Liants pour peintures et vernis — Détermination de l'indice d'hydroxyle —

Partie 1: Méthode titrimétrique sans catalyseur



ISO 4629-1:2016(E)



COPYRIGHT PROTECTED DOCUMENT

$\, @ \,$ ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Ch. de Blandonnet 8 • CP 401 CH-1214 Vernier, Geneva, Switzerland Tel. +41 22 749 01 11 Fax +41 22 749 09 47 copyright@iso.org www.iso.org

Con	ntents	Page
Fore	word	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Reagents	2
6	Apparatus	3
7	Sampling	3
8	Procedure 8.1 Number of determinations 8.2 Test portion 8.3 Determination 8.4 Blank test 8.5 Determination of acid value	
9	Expression of results	5
10	Precision	
11	Test report	6
Bibli	iography	7

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 35, *Paints and varnishes*, Subcommittee SC 10, *Test methods for binders for paints and varnishes*.

This first edition of ISO 4629-1 cancels and replaces ISO 4629:1996, which has been technically revised with the following changes:

- a) the standard has been numbered as ISO 4629-1:
- b) the standard has been editorially revised and the normative references have been updated;
- c) the concentration of the phenolphthalein-indicator solution has been changed.

ISO 4629 consists of the following parts, under the general title *Binders for paints and varnishes* — *Determination of hydroxyl value*:

- Part 1: Titrimetric method without using a catalyst
- Part 2: Titrimetric method using a catalyst

Binders for paints and varnishes — Determination of hydroxyl value —

Part 1:

Titrimetric method without using a catalyst

1 Scope

This part of ISO 4629 specifies a titrimetric method for determining the free hydroxyl groups in binders and binder solutions for paints and varnishes. The hydroxyl groups may be present as polyhydric alcohols, partial esters, polyester end groups or hydroxylated fatty acids.

This method is not applicable to resins containing both hydroxyl groups and epoxy groups, because the latter will also be included in the result. Also the method is not applicable to cellulose nitrate or to phenolic resins.

NOTE 1 If, in the case of binder solutions, the hydroxyl value of the binder only is to be determined, the possibility that other constituents of the binder solution may contain hydroxyl groups has to be taken into account.

NOTE 2 A method for the determination of the hydroxyl value of epoxy resins is specified in ISO 7142[1].

2 Normative references

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

ISO 385, Laboratory glassware — Burettes

ISO 648, Laboratory glassware — Single-volume pipettes

ISO 2114:2000, Plastics (polyester resins) and paints and varnishes (binders) — Determination of partial acid value and total acid value

ISO 3696, Water for analytical laboratory use — Specification and test methods

ISO 15528, Paints, varnishes and raw materials for paints and varnishes — Sampling

koniec náhľadu – text ďalej pokračuje v platenej verzii STN