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NSAI Standards

Irish Standard
I.S. EN ISO 16482-1:2016

Binders for paints and varnishes - Determination of the non-volatile-matter content of aqueous rosin-resin dispersions - Part 1: Oven method (ISO 16482-1:2013)

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I.S. EN ISO 16482-1:2016

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This document is based on:	*Published:*
EN ISO 16482-1:2016	2016-04-27

This document was published under the authority of the NSAI and comes into effect on: 2016-05-15	ICS number: 87.040 87.060.20 NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN ISO 16482-1:2016 is the adopted Irish version of the European Document EN ISO 16482-1:2016, Binders for paints and varnishes - Determination of the non-volatile-matter content of aqueous rosin-resin dispersions - Part 1: Oven method (ISO 16482-1:2013)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 16482-1

April 2016

ICS 87.040; 87.060.20

English Version

Binders for paints and varnishes - Determination of the non-volatile-matter content of aqueous rosin-resin dispersions - Part 1: Oven method (ISO 16482-1:2013)

Liants pour peintures et vernis - Détermination de la teneur en matières non volatiles des dispersions aqueuses de résine colophane - Partie 1: Méthode à l'étuve (ISO 16482-1:2013)

Bindemittel für Beschichtungsstoffe - Bestimmung des Gehaltes an nichtflüchtigen Anteilen wässriger Kolophonium-Harz-Dispersionen - Teil 1: Wärmeschrankverfahren (ISO 16482-1:2013)

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European foreword

The text of ISO 16482-1:2013 has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 16482-1:2016 by 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of an identical text or by endorsement, at the latest by October 2016, and conflicting national standards shall be withdrawn at the latest by October 2016.

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INTERNATIONAL STANDARD

ISO 16482-1

First edition
2013-02-01

Binders for paints and varnishes — Determination of the non-volatile-matter content of aqueous rosin-resin dispersions —

Part 1: Oven method

Liants pour peintures et vernis — Détermination de la teneur en matières non volatiles des dispersions aqueuses de résine colophane —

Partie 1: Méthode à l'étuve

Reference number
ISO 16482-1:2013(E)

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Foreword

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ISO 16482-1 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 10, *Test methods for binders for paints and varnishes*.

ISO 16482 consists of the following parts, under the general title *Binders for paints and varnishes — Determination of the non-volatile matter content of aqueous rosin-resin dispersions*:

— *Part 1: Oven method*

— *Part 2: Microwave method*

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Binders for paints and varnishes — Determination of the non-volatile-matter content of aqueous rosin-resin dispersions —

Part 1: Oven method

1 Scope

This part of ISO 16482 specifies a method for determining the non-volatile content, by mass, of aqueous rosin-resin dispersions, using an oven.

This method is applicable to resin dispersions having a softening point from 60 °C to 100 °C, measured in accordance with ISO 4625-1 (ring-and-ball method).

2 Normative references

The following 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 4625-1, *Binders for paints and varnishes — Determination of softening point — Part 1: Ring-and-ball method*

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
non-volatile matter
NV
residue by mass obtained by evaporation under specified conditions

[SOURCE: ISO 4618:2006]

4 Principle

The water in a resin dispersion is evaporated at 135 °C. The mass of the residue is determined.

5 Apparatus

5.1 Analytical balance, accurate to 0,000 1 g.

5.2 Aluminium dishes, having a diameter of (45 ± 5) mm at the bottom. The height of the rim shall be not more than 40 mm.

5.3 Non-convection oven, capable of being maintained at (135 ± 3) °C.

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