

BS ISO 16482-1:2013



BSI Standards Publication

**Binders for paints and
varnishes — Determination
of the non-volatile-matter
content of aqueous
rosin-resin dispersions**
Part 1: Oven method

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National foreword

This British Standard is the UK implementation of ISO 16482-1:2013.

The UK participation in its preparation was entrusted to Technical Committee STI/3, Paints, media and related products.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Date	Text affected
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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**

*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*





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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*

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.