

# ISO 9117-3:2010 [Preview](#)

## Paints and varnishes -- Drying tests -- Part 3: Surface-drying test using ballotini

ISO 9117-3:2010 specifies a test method for determining the surface-drying characteristics of a coating of a paint or varnish which dries by the action of air or by chemical reaction of its components.

The method is not intended to apply to stoving products.

The method described may be carried out: as a "go/no go" test, by determining the surface-drying state after a specified time, to assess compliance with a particular requirement; by determining the surface-drying state at suitable intervals until the surface-drying time is obtained.

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ISO 9117-3 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This first edition of [ISO 9117-3](#) cancels and replaces [ISO 1517:1973](#), which has been technically revised. The main changes are as follows:

- a) the method has been integrated into the ISO 9117 series as Part 3, for determination of the drying of paints and varnishes;
- b) a “principle” clause has been added;
- c) text from the former introduction listing supplementary information has been integrated into the test report.

ISO 9117 consists of the following parts, under the general title *Paints and varnishes — Drying tests*:

- — *Part 1: Determination of through-dry state and through-dry time*
- — *Part 2: Pressure test for stackability*
- — *Part 3: Surface-drying test using ballotini*

The following parts are under preparation:

- — *Part 4: Test using a mechanical recorder*
- — *Part 5: Modified Bandow-Wolff test*

## 1 Scope

This part of ISO 9117 specifies a test method for determining the surface-drying characteristics of a coating of a paint or varnish which dries by the action of air or by chemical reaction of its components.

The method is not intended to apply to stoving products.

The method described may be carried out:

- — as a “go/no go” test, by determining the surface-drying state after a specified time, to assess compliance with a particular requirement;
- — by determining the surface-drying state at suitable intervals until the surface-drying time is obtained.

## 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.

- [ISO 1513](#), *Paints and varnishes — Examination and preparation of test samples*
- [ISO 1514](#), *Paints and varnishes — Standard panels for testing*
- [ISO 2808](#), *Paints and varnishes — Determination of film thickness*
- [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**

**surface-drying state**

condition of a surface of a coating of paint or varnish determining whether it is dry or not

**3.2**

**surface-dry**

state of a coating of paint or varnish when ballotini can be lightly brushed away without damaging the surface of the coating

**3.3**

**surface-drying time**

period of time between the application of a coating of paint or varnish to a prepared test panel and the assessment of the coating as just surface-dry by the test procedure specified