

**DIN EN ISO 2808**

ICS 17.040.20; 87.040

Supersedes  
DIN EN ISO 2808:1999-10**Paints and varnishes –  
Determination of film thickness (ISO 2808:2007)  
English version of DIN EN ISO 2808:2007-05**

Beschichtungsstoffe –  
Bestimmung der Schichtdicke (ISO 2808:2007)  
Englische Fassung DIN EN ISO 2808:2007-05

Document comprises 47 pages



## **National foreword**

This standard falls within the responsibility of Technical Committee CEN/TC 139 "Paints and varnishes" (Secretariat: DIN, Germany). It is identical with International Standard ISO 2808:2007 which was prepared by Technical Committee ISO/TC 35 "Paints and varnishes", Subcommittee SC 9 "General test methods for paints and varnishes" (Secretariat: BSI, United Kingdom).

The responsible German body involved in its preparation was the *Normenausschuss Beschichtungsstoffe und Beschichtungen* (Coatings and Coating Materials Standards Committee), Technical Committee NA 002-00-07 *AA Allgemeine Prüfverfahren für Beschichtungsstoffe und Beschichtungen*.

If the film thickness of a coating system consisting of a basic coat and a varnish is measured, swelling of the basic coat may result in a greater film thickness than if the thickness of the burned-in layer and the thickness of the varnish are measured separately and then added together. If the film thickness of such a coating system is measured using different methods, it should be ensured that all specimens are prepared in the same way.

The DIN Standards corresponding to the International Standards referred to in clause 2 and in the bibliography of the EN are as follows:

ISO 463	DIN EN ISO 463
ISO 1101	DIN EN ISO 1101
ISO 1463	DIN EN ISO 1463
ISO 2178	DIN EN ISO 2178
ISO 2360	DIN EN ISO 2360
ISO 2811-1	DIN EN ISO 2811-1
ISO 2811-2	DIN EN ISO 2811-2
ISO 2811-3	DIN EN ISO 2811-3
ISO 2811-4	DIN EN ISO 2811-4
ISO 3543	DIN EN ISO 3543
ISO 3611	DIN 863-1
ISO 4518	DIN EN ISO 4518
ISO 4618	DIN EN ISO 4618
ISO 8130-2	DIN ISO 8130-2
ISO 8130-3	DIN ISO 8130-3
ISO 8503-1	DIN EN ISO 8503-1

### **Amendments**

This standard differs from DIN EN ISO 2808:1999-10 as follows:

- a) The structure of the standard has been changed into four main clauses:
  - 1) Determination of wet-film thickness;
  - 2) Determination of dry-film thickness;
  - 3) Determination of the thickness of uncured powder layers;
  - 4) Measurement of film thickness on rough surfaces.
- b) Methods using photothermal, radiological and acoustic techniques have been specified.
- c) The split-beam method has been deleted as such instruments are no longer manufactured.

**Previous editions**

DIN EN ISO 2808: 1999-10

**National Annex NA**  
(informative)**Bibliography**

- DIN 863-1, *Micrometers — Standard design external micrometers — Concepts, requirements and testing*
- DIN EN ISO 463, *Geometrical Product Specifications (GPS) — Dimensional measuring equipment — Design and metrological characteristics of mechanical dial gauges*
- DIN EN ISO 1101, *Geometrical Product Specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*
- DIN EN ISO 1463, *Metallic and oxide coatings — Measurement of coating thickness — Microscopical method*
- DIN EN ISO 2178, *Non-magnetic coatings on magnetic substrates — Measurement of coating thickness — Magnetic method*
- DIN EN ISO 2360, *Non-conductive coatings on non-magnetic electrically conductive basis materials — Measurement of coating thickness — Amplitude-sensitive eddy current method*
- DIN EN ISO 2811-1, *Paints and varnishes — Determination of density — Part 1: Pycnometer method*
- DIN EN ISO 2811-2, *Paints and varnishes — Determination of density — Part 2: Immersed body (plummet) method*
- DIN EN ISO 2811-3, *Paints and varnishes — Determination of density — Part 3: Oscillation method*
- DIN EN ISO 2811-4, *Paints and varnishes — Determination of density — Part 4: Pressure cup method*
- DIN EN ISO 3543, *Metallic and non-metallic coatings — Measurement of thickness — Beta backscatter method*
- DIN EN ISO 4518, *Metallic coatings — Measurement of coating thickness — Profilometric method*
- DIN EN ISO 4618, *Paints and varnishes — Terms and definitions*
- DIN EN ISO 8503-1, *Preparation of steel substrates before application of paints and related products — Surface roughness characteristics of blast-cleaned steel substrates — Part 1: Specifications and definitions for ISO surface profile comparators for the assessment of abrasive blast-cleaned surfaces*
- DIN ISO 8130-2, *Coating powders — Part 2: Determination of density by gas comparison pycnometer (referee method)*
- DIN ISO 8130-3, *Coating powders — Part 3: Determination of density by liquid displacement pycnometer*