



**International
Standard**

ISO 29601

**Paints and varnishes — Corrosion
protection by protective paint
systems — Assessment of porosity
in a dry film**

*Peintures et vernis — Anticorrosion par systèmes de peinture —
Évaluation de la porosité d'un feuil sec*

**Second edition
2026-04**

**Corrected version
2026-09**

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Published in Switzerland

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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 document 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).

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This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 14, *Protective paint systems for steel structures*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 139, *Paints and varnishes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 29601:2011), which has been technically revised.

The main changes are as follows:

- general (editorial) update of terminology;
- update on cleaning procedure before measurement;
- update on verification of test equipment;
- update on voltage calculation;
- low voltage measurement was confirmed.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This corrected version of ISO 29601:2026 incorporates the following corrections:

- [Table A.1](#) has been correctly restored to reflect the voltage values in the previous edition.

Introduction

This document supplements the ISO 12944 series with regard to the detection of porosity in a dry film. If specified or agreed, this document can also be used for other applications.

The objective of this document is to achieve uniformity of practice for the detection of porosity in a dry film. The methods chosen entail the detection of porosity using one of two types of equipment, a low-voltage pinhole detector or a high-voltage holiday detector.

This document complements the following International Standards:

- ISO 19840, which concerns the measurement of the thickness of dry films on rough surfaces;
- ISO 16276-1, which concerns the measurement of the adhesion of a coating by pull-off testing;
- ISO 16276-2, which concerns the measurement of the adhesion by cross-cut and X-cut testing.

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