International Standard

ISO 29601

Second edition
2026-04

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

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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).

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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.

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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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