

**Paints and varnishes - Determination of density - Part 1:
Pyknometer method (ISO 2811-1:2011)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 2811-1:2011 sisaldab Euroopa standardi EN ISO 2811-1:2011 ingliskeelset teksti.

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English Version

Paints and varnishes - Determination of density - Part 1:
Pyknometer method (ISO 2811-1:2011)

Peintures et vernis - Détermination de la masse volumique
- Partie 1: Méthode pycnométrique (ISO 2811-1:2011)

Beschichtungsstoffe - Bestimmung der Dichte - Teil 1:
Pyknometer-Verfahren (ISO 2811-1:2011)

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Foreword

This document (EN ISO 2811-1:2011) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 139 "Paints and varnishes" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

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Endorsement notice

The text of ISO 2811-1:2011 has been approved by CEN as a EN ISO 2811-1:2011 without any modification.

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Paints and varnishes — Determination of density —

Part 1: Pyknometer method

1 Scope

This part of ISO 2811 specifies a method for determining the density of paints, varnishes and related products using a metal or Gay-Lussac pyknometer.

The method is limited to materials of low or medium viscosity at the temperature of test. The Hubbard pyknometer (see ISO 3507) can be used for highly viscous materials.

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 3696, *Water for analytical laboratory use — Specification and test methods*

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 density

ρ

mass divided by the volume of a portion of a material

NOTE It is expressed in grams per cubic centimetre.

4 Principle

A pyknometer is filled with the product under test. The density is calculated from the mass of the product in the pyknometer and the known volume of the pyknometer.