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# INTERNATIONAL STANDARD



# 3232

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## Paints and varnishes — Determination of quantity of material in a container

*Peintures et vernis — Détermination de la quantité de produit dans un récipient*

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**Descriptors** : paints, varnishes, volume, weight measurement.

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3232 was drawn up by Technical Committee ISO/TC 35, *Paints and varnishes*, and circulated to the Member Bodies in April 1973.

It has been approved by the Member Bodies of the following countries :

Australia	Iran	Romania
Bulgaria	Ireland	South Africa, Rep. of
Czechoslovakia	Israel	Sweden
Egypt, Arab Rep. of	Netherlands	Switzerland
Germany	New Zealand	Thailand
Greece	Poland	Turkey
India	Portugal	United Kingdom

The Member Body of the following country expressed disapproval of the document on technical grounds :

France

# Paints and varnishes – Determination of quantity of material in a container

## 0 INTRODUCTION

This International Standard is one of a series dealing with the testing of paints, varnishes and related products. It should be read in conjunction with ISO 1512, *Paints and varnishes – Sampling*, and ISO 2811, *Paints and varnishes – Determination of density*.

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method for the determination of the quantity of paint, varnish or related product in a container.

## 2 PROCEDURE

**2.1** If testing a consignment of unopened containers, select the number to be tested in accordance with ISO 1512.

**2.2** Clean the outside of the container and weigh the container and contents to an accuracy of 0,2 %.

**2.3** Mix the contents thoroughly and, if the volume of the contents is required, take a sample for density determination, using the procedure specified in ISO 1512.

**2.4** Empty out the contents of the container, rinse the container and lid or stopper, clean them with an appropriate solvent and thoroughly dry them.

**2.5** Weigh the empty container, with lid or stopper, to an accuracy of 0,2 %.

**2.6** If the volume of the contents is required, using the sample taken in 2.3 determine the density of the product according to the method in ISO 2811.

## 3 CALCULATION

### 3.1 Mass of contents

Calculate the mass of the contents of the container,  $m_0$ , in grams, by the formula

$$m_0 = m_1 - m_2$$

where

$m_1$  is the mass, in grams, of the full container;

$m_2$  is the mass, in grams, of the empty container.

### 3.2 Volume of contents

Calculate the volume of the contents of the container,  $V$ , in millilitres, by the formula

$$V = \frac{m_1 - m_2}{\rho} = \frac{m_0}{\rho}$$

where  $\rho$  is the density of the product determined as in 2.6.

## 4 TEST REPORT

The test report shall include the following particulars :

- a reference to this International Standard or to a corresponding national standard;
- type and identification of the product under test;
- any deviation, by agreement or otherwise, from the test procedure described;
- the result of the determination (mass or volume of contents of container);
- date of test.