

**Paints, varnishes and printing inks - Determination of fineness of grind (ISO 1524:2013)**

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English Version

**Paints, varnishes and printing inks - Determination of fineness of grind (ISO 1524:2013)**

Peintures, vernis et encres d'imprimerie - Détermination de la finesse de broyage (ISO 1524:2013)

Beschichtungsstoffe und Druckfarben - Bestimmung der Mahlfineinheit (Körnigkeit) (ISO 1524:2013)

This European Standard was approved by CEN on 2 February 2013.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

This document (EN ISO 1524:2013) 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of an identical text or by endorsement, at the latest by August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 1524:2002.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### Endorsement notice

The text of ISO 1524:2013 has been approved by CEN as EN ISO 1524:2013 without any modification.

# Paints, varnishes and printing inks — Determination of fineness of grind

## 1 Scope

This International Standard specifies a method for determining the fineness of grind of paints, inks and related products by use of a suitable gauge, graduated in micrometres.

It is applicable to all types of liquid paints and related products, except products containing pigments in flake form (e.g. glass flakes, micaceous iron oxides, zinc flakes).

Of the three gauges referred to in [4.1](#), the 100  $\mu\text{m}$  gauge is suitable for general use, but the 50  $\mu\text{m}$  and especially the 25  $\mu\text{m}$  gauge will only provide reliable results in the hands of skilled laboratory personnel. Particular caution is necessary in interpreting readings of less than 10  $\mu\text{m}$ .

## 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 4618, *Paints and varnishes — Terms and definitions*

ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4618 and the following apply.

### 3.1

#### **fineness of grind**

reading obtained on a standard gauge under specified conditions of test, indicating the depth of the groove(s) of the gauge at which discrete solid particles in the product are readily discernible

## 4 Apparatus

**4.1 Gauge**, consisting of a block of a hardened steel e.g. 175 mm long, 65 mm wide and 13 mm thick.

At least for use with water-dilutable paints, a block of stainless steel should be used.

The top surface of the block shall be both plane and ground smooth and shall contain one or two grooves approximately 140 mm long and 12,5 mm wide parallel to the longer sides of the block. The depth of each groove shall be uniformly tapered along its length from a suitable depth (for example 25  $\mu\text{m}$ , 50  $\mu\text{m}$  or 100  $\mu\text{m}$ ) at one end to zero at the other end and shall be graduated as specified in [Table 1](#). A diagram showing two typical gauges is given in [Figure 1](#).