



**NSAI**  
Standards

Irish Standard  
I.S. EN ISO 787-17:2019

# General methods of test for pigments and extenders - Part 17: Comparison of lightening power of white pigments (ISO 787-17:2019)

**I.S. EN ISO 787-17:2019**

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## National Foreword

I.S. EN ISO 787-17:2019 is the adopted Irish version of the European Document EN ISO 787-17:2019, General methods of test for pigments and extenders - Part 17: Comparison of lightening power of white pigments (ISO 787-17:2019)

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EUROPEAN STANDARD

EN ISO 787-17

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Supersedes EN ISO 787-17:2017

English Version

## General methods of test for pigments and extenders - Part 17: Comparison of lightening power of white pigments (ISO 787-17:2019)

Méthodes générales d'essai des pigments et matières  
de charge - Partie 17: Comparaison du pouvoir  
éclaircissant des pigments blancs (ISO 787-17:2019)

Allgemeine Prüfverfahren für Pigmente und Füllstoffe -  
Teil 17: Vergleich des Aufhellvermögens von  
Weißpigmenten (ISO 787-17:2019)

This European Standard was approved by CEN on 12 April 2019.

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**EN ISO 787-17:2019 (E)**

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## **European foreword**

This document (EN ISO 787-17:2019) has been prepared by Technical Committee ISO/TC 256 "Pigments, dyestuffs and extenders" in collaboration with Technical Committee CEN/TC 298 "Pigments and extenders" 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of an identical text or by endorsement, at the latest by November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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

This document supersedes EN ISO 787-17:2017.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Endorsement notice**

The text of ISO 787-17:2019 has been approved by CEN as EN ISO 787-17:2019 without any modification.

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# INTERNATIONAL STANDARD

**ISO  
787-17**

Third edition  
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## **General methods of test for pigments and extenders —**

Part 17:

### **Comparison of lightening power of white pigments**

*Méthodes générales d'essai des pigments et matières de charge —*

*Partie 17: Comparaison du pouvoir éclaircissant des pigments blancs*



Reference number  
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## ISO 787-17:2019(E)

## 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 documents 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 256, *Pigments, dyestuffs and extenders*.

This third edition cancels and replaces the second edition (ISO 787-17:2002), of which it constitutes a minor revision. The changes compared to the previous edition are as follows:

- [Clause 3](#) "Terms and definitions", with a general reference to ISO 18451-1, has been added;
- CAS numbers have been added to the reagents;
- the text has been editorially revised.

A list of all parts in the ISO 787 series can be found on the ISO website.

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](http://www.iso.org/members.html).

# General methods of test for pigments and extenders —

## Part 17:

## Comparison of lightening power of white pigments

### 1 Scope

This document specifies a general method of test for comparing the lightening (reducing) power of a white pigment with the lightening power of an agreed sample of the same type.

Two procedures (A and B) are specified. Procedure A is quicker than procedure B and is suitable for testing one sample of pigment; procedure B is better for testing several samples, and especially if a pigment of unknown lightening power is being tested.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 788, *Ultramarine pigments for paints*

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

ISO 18451-1, *Pigments, dyestuffs and extenders — Terminology — Part 1: General terms*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 18451-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

### 4 Reagent

#### 4.1 Blue paste, with the following composition:

- castor oil, medicinal quality: 500 g (CAS-No. 8001-79-4);
- precipitated calcium sulfate,  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ : 475 g (CAS-No. 10101-41-4);
- ultramarine blue complying with ISO 788: 5 g;
- treated natural earth<sup>1)</sup>: 20 g.

The paste shall be prepared as follows.

Mix the treated natural earth in a beaker with sufficient castor oil to give a uniform paste and then gradually stir in the remaining castor oil. Heat the mixture so obtained to a temperature of 50 °C and,

1) A prepared bentonite is a suitable material.

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