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Irish Standard  
I.S. EN ISO 787-7:2009

# General methods of test for pigments and extenders - Part 7: Determination of residue on sieve - Water method - Manual procedure (ISO 787-7:2009)

## I.S. EN ISO 787-7:2009

*Incorporating amendments/corrigenda issued since publication:*

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EUROPEAN STANDARD

**EN ISO 787-7**

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English Version

**General methods of test for pigments and extenders - Part 7:  
Determination of residue on sieve - Water method - Manual  
procedure (ISO 787-7:2009)**

Méthodes générales d'essai des pigments et matières de  
charge - Partie 7: Détermination du refus sur tamis -  
Méthode à l'eau - Méthode manuelle (ISO 787-7:2009)

Allgemeine Prüfverfahren für Pigmente und Füllstoffe - Teil  
7: Bestimmung des Siebrückstandes - Wasserverfahren -  
Handspülverfahren (ISO 787-7:2009)

This European Standard was approved by CEN on 5 October 2009.

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## **Foreword**

This document (EN ISO 787-7:2009) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" 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of an identical text or by endorsement, at the latest by April 2010, and conflicting national standards shall be withdrawn at the latest by April 2010.

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.

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### **Endorsement notice**

The text of ISO 787-7:2009 has been approved by CEN as a EN ISO 787-7:2009 without any modification.

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# INTERNATIONAL STANDARD

**ISO**  
**787-8**

Second edition  
2000-10-01

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

Part 8:

### **Determination of matter soluble in water — Cold extraction method**

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

*Partie 8: Détermination des matières solubles dans l'eau — Méthode par  
extraction à froid*



Reference number  
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## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 787 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 787-8 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 2, *Pigments and extenders*.

This second edition cancels and replaces the first edition (ISO 787-8:1979), which has been technically revised.

ISO 787 consists of the following parts, under the general title *General methods of test for pigments and extenders*:

- *Part 1: Comparison of colour of pigments*
- *Part 2: Determination of matter volatile at 105 °C*
- *Part 3: Determination of matter soluble in water — Hot extraction method*
- *Part 4: Determination of acidity or alkalinity of the aqueous extract*
- *Part 5: Determination of oil absorption value*
- *Part 7: Determination of residue on sieve — Water method — Manual procedure*
- *Part 8: Determination of matter soluble in water — Cold extraction method*
- *Part 9: Determination of pH value of an aqueous suspension*
- *Part 10: Determination of density — Pyknometer method*
- *Part 11: Determination of tamped volume and apparent density after tamping*
- *Part 13: Determination of water-soluble sulphates, chlorides and nitrates*
- *Part 14: Determination of resistivity of aqueous extract*
- *Part 15: Comparison of resistance to light of coloured pigments of similar types*
- *Part 16: Determination of relative tinting strength (or equivalent colouring value) and colour on reduction of coloured pigments — Visual comparison method*

- *Part 17: Comparison of lightening power of white pigments*
- *Part 18: Determination of residue on sieve — Mechanical flushing procedure*
- *Part 19: Determination of water-soluble nitrates (Salicylic acid method)*
- *Part 21: Comparison of heat stability of pigments using a stoving medium*
- *Part 22: Comparison of resistance to bleeding of pigments*
- *Part 23: Determination of density (using a centrifuge to remove entrained air)*
- *Part 24: Determination of relative tinting strength of coloured pigments and relative scattering power of white pigments — Photometric methods*
- *Part 25: Comparison of the colour, in full-shade systems, of white, black and coloured pigments — Colorimetric method*
- *Part 26: Determination of relative tinting strength and residual colour difference of colorants — Weighted K/S value method*

# General methods of test for pigments and extenders —

## Part 8:

## Determination of matter soluble in water — Cold extraction method

### 1 Scope

This part of ISO 787 specifies a general method of test for determining the percentage by mass of matter soluble in cold water, in a sample of pigment or extender.

ISO 787-3 specifies a method for determining the percentage by mass of matter soluble in water by hot extraction. For most pigments and extenders, these two test methods will give different results, and it is therefore essential to state clearly in a specification which method is to be used, and in the test report which method has been used.

**NOTE** The general methods given in the various parts of ISO 787 are usually applicable to any pigment or extender. Thus only a cross-reference to the appropriate part of ISO 787 needs to be included in the International Standard giving the specification for that pigment or extender, indicating any detailed modification that may be needed in view of the special properties of the material in question. Only when the general methods are not applicable to a particular material is a different method for determination of water-soluble matter to be specified.

### 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 787. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 787 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 787-3:2000, *General methods of test for pigments and extenders — Part 3: Determination of matter soluble in water — Hot extraction method*.

ISO 1042:1998, *Laboratory glassware — One-mark volumetric flasks*.

ISO 15528:2000, *Paints, varnishes and raw materials for paints and varnishes — Sampling*.

### 3 Reagent

**3.1 Water**, freshly double-distilled or de-ionized, of pH 6 to 7.

Other types of water may be used but only by agreement between the interested parties.

### 4 Apparatus

**4.1 One-mark volumetric flask**, of capacity 250 ml, complying with the requirements of ISO 1042.

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