



# SLOVENSKI STANDARD SIST EN ISO 787-25:2007

01-april-2007

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General methods of test for pigments and extenders - Part 25: Comparison of the colour, in full-shade systems, of white, black and coloured pigments - Colorimetric method (ISO 787-25:1993)

Allgemeine Prüfverfahren für Pigmente und Füllstoffe - Teil 25: Vergleich der Farbe von Weiß-, Schwarz- und Buntpigmenten in Purton Systemen - Farbmetrisches Verfahren (ISO 787-25:1993)

Méthodes générales d'essai des pigments et matières de charge - Partie 25: Comparaison, dans les systemes monopigmentaires, de la couleur des pigments blancs, noirs et colorés - Méthode colorimétrique (ISO 787-25:1993)

**Ta slovenski standard je istoveten z: EN ISO 787-25:2006**

**ICS:**

87.060.10 Pigmenti in polnila Pigments and extenders

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ICS 87.060.10

English Version

General methods of test for pigments and extenders - Part 25:  
Comparison of the colour, in full-shade systems, of white, black  
and coloured pigments - Colorimetric method (ISO 787-25:1993)

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This European Standard was approved by CEN on 21 October 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

## Foreword

The text of ISO 787-25:1993 has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 787-25:2006 by 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 May 2007, and conflicting national standards shall be withdrawn at the latest by May 2007.

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

### Endorsement notice

The text of ISO 787-25:1993 has been approved by CEN as EN ISO 787-25:2006 without any modifications.

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

**Part 25:**

**Comparison of the colour in full-shade  
systems, of white, black and coloured  
pigments — Colorimetric method**

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

*Partie 25: Comparaison, dans les systèmes monopigmentaires, de la  
couleur des pigments blancs, noirs et colorés — Méthode colorimétrique*



## 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.

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.

International Standard ISO 787-25 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Sub-Committee SC 2, *Pigments and extenders*.

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*

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- 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 remaining colour difference on reduction — Colorimetric method

Parts 13, 14 and 17 are bound together as one document. Parts 6, 12 and 20 have been withdrawn.

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# General methods of test for pigments and extenders —

## Part 25:

### Comparison of the colour, in full-shade systems, of white, black and coloured pigments — Colorimetric method

#### 1 Scope

This part of ISO 787 specifies a general test method for comparing the colour, in full-shade systems, of white, black or coloured pigments with that of an agreed reference pigment, using a colorimetric procedure.

NOTE 1 When the general method specified in this part of ISO 787 is applicable to a given pigment, only a cross-reference to ISO 787-25 needs to be included in the International Standard giving the specification for that pigment, indicating any detailed modification that may be needed in view of the special properties of the material in question. Only when the general method in this part of ISO 787 is not applicable to a particular material is a different photometric method for comparison of colour to be specified.

ISO 787-1:1982, *General methods of test for pigments and extenders — Part 1: Comparison of colour of pigments*, describes a general test method for visual comparison of the colour of pigments.

#### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 787. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 787 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 787-9:1981, *General methods of test for pigments and extenders — Part 9: Determination of pH value of an aqueous suspension*.

ISO 842:1984, *Raw materials for paints and varnishes — Sampling*.

ISO 3219:1993, *Plastics — Polymers/resins in the liquid state or as emulsions or dispersions — Determination of viscosity using a rotational viscometer with defined shear rate*.

ISO 3682:1983, *Binders for paints and varnishes — Determination of acid value — Titrimetric method*.

ISO 4629:1978, *Paint media — Determination of hydroxyl value — Titrimetric method*.

ISO 7724-1:1984, *Paints and varnishes — Colorimetry — Part 1: Principles*.

ISO 7724-2:1984, *Paints and varnishes — Colorimetry — Part 2: Colour measurement*.

ISO 7724-3:1984, *Paints and varnishes — Colorimetry — Part 3: Calculation of colour differences*.

ISO 8780-6:1990, *Pigments and extenders — Methods of dispersion for assessment of dispersion characteristics — Part 6: Dispersion using a triple-roll mill*.

ASTM D 16-1991, *Standard terminology relating to paint, varnish, lacquer and related products*.