

SLOVENSKI STANDARD SIST EN ISO 787-10:1997

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Splošne metode preskušanja pigmentov in polnil - 10. del: Določanje gostote - Metoda s piknometrom (ISO 787-10:1993)

General methods of test for pigments and extenders - Part 10: Determination of density - Pycnometer method (ISO 787-10:1993)

Allgemeine Prüfverfahren für Pigmente und Füllstoffe - Teil 10: Bestimmung der Dichte - Pyknometerverfahren (ISQ 787-10:1993) ARD PREVIEW

Méthodes générales d'essai des pigments et matieres de charge - Partie 10:

Détermination de la masse volumique Méthode utilisant un pycnometre (ISO 787-10:1993)

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d26ccd30cfa9/sist-en-iso-787-10-1997

Ta slovenski standard je istoveten z: EN ISO 787-10:1995

ICS:

87.060.10 Pigmenti in polnila Pigments and extenders

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NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1995

ICS 87.060.10

Descriptors:

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paints, pigments, extenders, tests, density measurement, pyknometric analysis

English version

General methods of test for pigments and extenders - Part 10: Determination of density - Pycnometer method (ISO 787-10:1993)

Méthodes générales d'essai des pigments et Aligemeine Prüfverfahren für Pigmente und matières de charge - Partie 10: Détermination DARD PRIFÜLIStoffe Teil 10: Bestimmung der Dichte - de la masse volumique - Méthode utilisant un pycnomètre (ISO 787-10:1993)

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This European Standard was approved by CEN on 1995-03-23. 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.

The European Standards exist 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.

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CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

The text of the International Standard from ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) has been taken over as a European Standard by the Technical Committee CEN/TC 298 "Pigments and extenders".

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 February 1996, and conflicting national standards shall be withdrawn at the latest by February 1996.

According to CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 787-10:1993 has been approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

ISO 787-10

> Second edition 1993-06-15

General methods of test for pigments and extenders —

Part 10:

iTeh Determination of density — Pyknometer (methodards.iteh.ai)

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ISO 787-10:1993(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.

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 worth.

International Standard ISO 787-10 was prepared by Technical Committee ISO/TC 35, Paints and varnishes, Sub-Committee SC 2, Pigments and extenders.

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This second edition cancels and dreplaces 9/sthem if its 87-edition (ISO 787-10:1981), which has been technically revised. The second edition includes two methods, rather than three, that use the same general principle but differ somewhat in the apparatus used. Method B is more convenient for pigments of lower density. Method C, given in the first edition, has been omitted in this second edition.

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

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- 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 (stanprocedures.iteh.ai)
- Part 19: Determination of water-soluble nitrates (Salicylic acid SIST method) 787-10:1997
 https://standards.iteh.ai/catalog/standards/sist/677cff5e-f786-4359-a29f-

d26ccd30Part 20. Comparison 907 ease of dispersion (Oscillatory shaking 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

Further parts are planned. Parts 6 and 12 have been withdrawn. Parts 13, 14 and 17 are printed together in the same document.

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General methods of test for pigments and extenders -

Part 10:

Determination of density — Pyknometer method

Scope

This part of ISO 787 specifies general methods of test for determining the density of a sample of pigment or extender, using a pyknometer. Since the pigment of pigment of pigment or extender, using a pyknometer.

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

ISO 787-23:1979, General methods of test for pig-ds. 13:11 Displacement liquid ments and extenders — Part 23: Determination of density (using a centrifuge to remove entrained air),

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 determi-

nation of density to be specified.

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 565:1990, Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet - Nominal sizes of openings.

specifies a general method using a centrifuge to re-787-1**3:191**7 A liquid shall be selected in which the material d26ccd30cfa9/sist-en-iso-properties7 and a low evaporation rate under a vacuum. A high-boiling aliphatic hydrocarbon solvent with a final boiling point over 170 °C is normally suitable.

> In addition to organic liquids, water with added wetting agent is also suitable.

> 3.1.2 Particular care is necessary in the selection of the liquid if carbon black is to be examined. The liquid selected shall have particularly good wetting properties for carbon black.

NOTE 3 Carbon tetrachloride has been found suitable.

3.2 Temperature of the determination

The temperature at which the determination is carried out significantly affects the density of the displacement liquid used, but not that of the material tested. In order that the determination may be carried out conveniently in the laboratory, the temperature of the determination shall be at least 5 °C above laboratory temperature.

Sampling

Take a representative sample of the material to be tested, as described in ISO 842.