



SLOVENSKI STANDARD

SIST EN ISO 787-5:1997

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Splošne metode preskušanja pigmentov in polnil - 5. del: Določanje oljnega števila (ISO 787-5:1980)

General methods of test for pigments and extenders - Part 5: Determination of oil absorption value (ISO 787-5:1980)

Allgemeine Prüfverfahren für Pigmente und Füllstoffe - Teil 5: Bestimmung der Ölzahl (ISO 787-5:1980)

Méthodes générales d'essai des pigments et matières de charge - Partie 5: Détermination de la prise d'huile (ISO 787-5:1980)

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Ta slovenski standard je istoveten z: EN ISO 787-5:1995

ICS:

87.060.10 Pigmenti in polnila Pigments and extenders

SIST EN ISO 787-5:1997 **en**

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EUROPEAN STANDARD

EN ISO 787-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1995

ICS 87.060.10; 87.060.30

Descriptors: paints, pigments, tests, density measurement, pycnometric analysis, test equipment, pycnometers

English version

**General methods of test for pigments and
extenders - Part 5: Determination of oil absorption
value (ISO 787-5:1980)**

Méthodes générales d'essai des pigments et
matières de charge - Partie 5: Détermination de
la prise d'huile (ISO 787-5:1980)

Allgemeine Prüfverfahren für Pigmente und
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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.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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Ref. No. EN ISO 787-5:1995 E

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 787-5:1980 has been approved by CEN as a European Standard without any modification.

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International Standard



787/5

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

General methods of test for pigments and extenders — Part 5 : Determination of oil absorption value

*Méthodes générales d'essai des pigments et matières de charge —
Partie 5 : Détermination de la prise d'huile*

First edition — 1980-03-15

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UDC 667.622 : 620.1

Ref. No. ISO 787/5-1980 (E)

Descriptors : paints, pigments, tests, density measurement, pyknometric analysis, test equipment, pyknometers.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 787/5 was developed by Technical Committee ISO/TC 35, *Paints and varnishes*.

It was submitted directly to the ISO Council, in accordance with clause 5.10.1 of part 1 of the Directives for the technical work of ISO. It cancels and replaces Part 5 of ISO Recommendation R 787-1968, which had been approved by the member bodies of the following countries :

Australia	Czechoslovakia	Netherlands
Austria	Egypt, Arab Rep. of	Portugal
Belgium	India	Spain
Brazil	Iran	Switzerland
Canada	Ireland	United Kingdom
Chile	Israel	USSR
Colombia	Japan	Yugoslavia

No member body had expressed disapproval of the document.

The purpose of this International Standard is to establish a series of general test methods for pigments and extenders which are suitable for all or many of the individual pigments and extenders for which specifications might be required. In such cases, a cross-reference to the general method should be included in the International Standard relating to that pigment or extender, with a note of any detailed modifications which might be needed in view of the special properties of the product in question.

Technical Committee ISO/TC 35 decided that all the general methods should be published as they become available, as parts of a single International Standard, in order to emphasize the relationship of each to the whole series.

The Technical Committee also decided that, where two or more procedures were widely used for determining the same or a similar characteristic of a pigment or extender, there would be no objection to including more than one of them in the ISO series. In such cases it will, however, be essential to state clearly in a specification which method is to be used and, in the test report, which method has been used.

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Parts of the series already published are as follows :

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- Part 1 : Comparison of colour
- 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 6 : Determination of residue on sieve — Oil method
- Part 7 : Determination of residue on sieve — Water method
- 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 12 : Visual comparison of hue of powdered white pigment (Hollow cone method)¹⁾
- Part 13 : Determination of water-soluble sulphates, chlorides and nitrates
- Part 14 : Determination of resistivity of aqueous extract
- Part 15 : Comparison of resistance of coloured pigments of similar types to light from a specified light source
- Part 16 : Comparison of relative tinting strength (or equivalent colouring value) and colour on reduction in linseed stand oil using the automatic muller
- Part 17 : Comparison of lightening power of white pigments
- Part 18 : Determination of residue on sieve by a mechanical flushing procedure
- Part 19 : Determination of water-soluble nitrates — Salicylic acid method
- Part 20 : Comparison of 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)

1) This part will be withdrawn as the specified method is no longer in use.

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General methods of test for pigments and extenders — Part 5 : Determination of oil absorption value

0 Introduction

This document is a part of ISO 787, *General methods of test for pigments and extenders*.

1 Scope and field of application

This part of ISO 787 specifies a general method of test for determining the oil absorption value of a sample of pigment or extender. The oil absorption value is usually required to be compared with the value determined at the same time on an agreed sample of the product.

NOTE — When this general method is applicable to a given pigment or extender, only a cross-reference to it should be included in the International Standard relating to that pigment or extender, with a note of any detailed modification which may be needed in view of the special properties of the material in question. Only when this general method is not applicable to a particular material should a special method for determination of oil absorption value be specified.

2 References

ISO 150, *Raw, refined and boiled linseed oil for paints and varnishes — Specifications and methods of test*.

ISO/R 385, *Burettes*

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

3 Definition

For the purpose of this International Standard, the following definition applies.

oil absorption value : The quantity of refined linseed oil that is absorbed under defined conditions by a sample of pigment or extender.

NOTE — The oil absorption value may be expressed either on a volume/mass basis or on a mass/mass basis.

4 Reagent

Refined linseed oil, complying with the requirements of ISO 150, and having an acid value of 5,0 to 7,0 mg KOH per gram.

5 Apparatus

5.1 Plate, of ground glass or marble, at least 300 mm × 400 mm.

5.2 Palette knife, with a tapered steel blade of the approximate dimensions 140 to 150 mm long, 20 to 25 mm wide at its widest point and not less than 12,5 mm wide at its narrowest point.

5.3 Burette, of capacity 10 ml, complying with the requirements of ISO/R 385.

5.4 Balance, with an appropriate accuracy.

6 Sampling

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

7 Procedure

Carry out the determination in duplicate.

7.1 Test portion

Weigh the appropriate quantity of the sample in accordance with the expected oil absorption value as indicated in the table below.

Table

Expected oil absorption value ml/100 g	Mass of the test portion g
less than 10	20
10 to 30	10
30 to 50	5
50 to 80	2
over 80	1