

General methods of test for pigments and extenders -
Part 1: Comparison of colour of pigments (ISO
787-1:1982)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

General methods of test for pigments and extenders - Part
1: Comparison of colour of pigments (ISO 787-1:1982)

Méthodes générales d'essai des pigments et matières
de charge - Partie 1: Comparaison de la couleur des
pigments (ISO 787-1:1982)

Allgemeine Prüfverfahren für Pigmente und Füllstoffe -
Teil 1: Farbvergleich von Pigmenten (ISO 787-1:1982)

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European foreword

The text of ISO 787-1:1982 has been prepared by Technical Committee ISO/TC 256 “Pigments, dyestuffs and extenders” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 787-1:2017 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of an identical text or by endorsement, at the latest by April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

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Endorsement notice

The text of ISO 787-1:1982 has been approved by CEN as EN ISO 787-1:2017 without any modification.

General methods of test for pigments and extenders — Part 1: Comparison of colour of pigments

0 Introduction

This document is a part of ISO 787, *General methods of test for pigments and extenders*. ISO/R 787/1 was published in July 1968. This revision differs from the 1968 edition in that

- a) the colour comparison is carried out using the procedure described in ISO 3668, and
- b) the binder is not specified.

1 Scope and field of application

1.1 This part of ISO 787 specifies a general method of test for comparing the colour of a coloured pigment with that of an agreed sample.

1.2 Either of the procedures described in clause 6 is acceptable but the method using an automatic muller is the reference method.

NOTE — When this general method is applicable to a given pigment, only a cross-reference to it should be included in the International Standard relating to that pigment, with a note of any detailed modifications which may be needed in view of the special properties of the material in question. Only when the procedures given in this general method are not applicable to a particular material should a special method for comparison of colour be specified.

2 References

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

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

ISO 3668, *Paints and varnishes — Visual comparison of the colour of paints*.

3 Binder

The binder used shall be agreed between the interested parties. If no binder is specified or agreed, linseed oil, complying with the requirements of the refined grade specified in ISO 150, should be used.

4 Apparatus

Ordinary laboratory apparatus, and

4.1 Palette knife, with a tapered steel blade of 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, or a palette knife of suitable plastics material.

4.2 Substrate, minimum area 150 mm × 50 mm. Choose a substrate according to the binder used and the method of colour comparison. If a glass panel is used, it shall be clear and colourless.

4.3 Burette, with a delivery such that 1 ml of the binder contains about 35 drops.

4.4 Muller.

Either of the following may be used:

4.4.1 Automatic muller, with ground glass plates, preferably water cooled, of diameter 180 to 250 mm, to which a variable but known force of up to about 1 kN may be applied. The driven glass plate shall have a rotational frequency of between 70 and 120 r/min and the apparatus should have an arrangement for pre-setting the number of revolutions in multiples of 25.

NOTE — If the automatic muller does not have water-cooled plates, care should be taken that temperature variations do not occur during the grinding operation.

4.4.2 Hand muller, with a diameter of 70 to 75 mm.

4.5 Plate, of ground glass or marble, for use when the automatic muller (4.4.1) is not available.

5 Sampling

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