International Standard

ISO 787-1

General methods of test for pigments and extenders —

Part 1: Comparison of colour of pigments

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

Partie 1: Comparaison de la couleur des pigments

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Contents

Page

Foreword ..... **iv**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Apparatus and materials **1**
5 Sampling **2**
6 Procedure **2**
6.1 General 2
6.2 Procedure using an automatic muller 2
6.2.1 Test portion 2
6.2.2 Preparation of pigment dispersion 2
6.3 Procedure using a hand muller or palette knife 3
6.3.1 Test portion 3
6.3.2 Preparation of pigment dispersion 3
7 Colour comparison **3**
8 Test report **3**

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 256, *Pigments, dyestuffs and extenders*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 298, *Pigments and extenders*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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This second edition cancels and replaces the first edition (ISO 787-1:1982), which has been technically revised.

The main changes are as follows:

— Clause 3 on terms and definitions has been added;

— in Clause 7, the colometric method has been added for colour measurement and colour comparison;

— the normative references have been updated.

A list of all parts in the ISO 787 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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General methods of test for pigments and extenders —

Part 1:
Comparison of colour of pigments

1 Scope

This document specifies a general method of test for comparing the colour of a coloured pigment with that of an agreed sample.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 150:2018, *Raw, refined and boiled linseed oil for paints and varnishes — Specifications and methods of test*

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

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

ISO 18314-1, *Analytical colorimetry — Part 1: Practical colour measurement*

ISO 18314-5, *Analytical colorimetry — Part 5: Procedure for colorimetric determination of colour differences of object colours according to equidistant colour spaces*

ISO 18451-1, *Pigments, dyestuffs and extenders — Terminology — Part 1: General terms*

ISO/CIE 11664-4, *Colorimetry — Part 4: CIE 1976 L*a*b* colour space*

ISO/CIE 11664-6, *Colorimetry — Part 6: CIEDE2000 colour-difference formula*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 18451-1 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Apparatus and materials

The usual laboratory apparatus and, in particular, the following shall be used.

4.1 Palette knife, with a tapered steel blade of the approximate dimensions 140 mm to 150 mm long, 20 mm 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.

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