

INTERNATIONAL STANDARD

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Pigments and extenders — Methods of dispersion for assessment of dispersion characteristics —

Part 1: **Introduction**

*Pigments et matières de charge — Méthodes de dispersion pour évaluer
la dispersibilité —*

Partie 1: Introduction



Reference number
ISO 8780-1:1990(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 a vote.

International Standard ISO 8780-1 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*.

ISO 8780 consists of the following parts, under the general title *Pigments and extenders — Methods of dispersion for assessment of dispersion characteristics*:

- Part 1: Introduction
- Part 2: Dispersion using an oscillatory shaking machine
- Part 3: Dispersion using a high-speed impeller mill
- Part 4: Dispersion using a bead mill
- Part 5: Dispersion using an automatic muller
- Part 6: Dispersion using a triple-roll mill

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Pigments and extenders — Methods of dispersion for assessment of dispersion characteristics —

Part 1: Introduction

1 Scope

This part of ISO 8780 gives an introduction to the various methods, described in subsequent parts of ISO 8780, for dispersing pigments and/or extenders¹⁾ in a particular binder system in order to assess the dispersion characteristics.

Methods for assessing the characteristics of the dispersion so produced are described in ISO 8781.

The various procedures permit comparisons between similar pigments (for example between a test pigment and an agreed reference pigment). The results make it possible to draw inferences about the dispersion that may be obtained under manufacturing conditions, but only if the dispersion conditions for the test are appropriate.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8780. 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 8780 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 8780-2:1990, *Pigments and extenders — Methods of dispersion for assessment of dispersion characteristics — Part 2: Dispersion using an oscillatory shaking machine.*

ISO 8780-3:1990, *Pigments and extenders — Methods of dispersion for assessment of dispersion characteristics — Part 3: Dispersion using a high-speed impeller mill.*

ISO 8780-4:1990, *Pigments and extenders — Methods of dispersion for assessment of dispersion characteristics — Part 4: Dispersion using a bead mill.*

ISO 8780-5:1990, *Pigments and extenders — Methods of dispersion for assessment of dispersion characteristics — Part 5: Dispersion using an automatic muller.*

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

ISO 8781-1:1990, *Pigments and extenders — Methods of assessment of dispersion characteristics — Part 1: Assessment from the change in tinting strength of coloured pigments.*

ISO 8781-2:1990, *Pigments and extenders — Methods of assessment of dispersion characteristics — Part 2: Assessment from the change in fineness of grind.*

ISO 8781-3:1990, *Pigments and extenders — Methods of assessment of dispersion characteristics — Part 3: Assessment from the change in gloss.*

3 Definitions

For the purposes of ISO 8780 and ISO 8781, the following definitions apply.

1) For subsequent reference in all parts of ISO 8780 and ISO 8781 the word "pigment" only is used.