
**Pigmenti in polnila - Metode dispergiranja za ocenitev dispergirnih lastnosti - 3.
del: Dispergiranje z mešalom z velikim številom obratov (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 8780-3:1990)

Pigmente und Füllstoffe - Dispergierverfahren zur Beurteilung des Dispergierverhaltens - Teil 3: Dispergieren mit einem Hochgeschwindigkeitsrührer (ISO 8780-3:1990)

Pigments et matières de charge - Méthodes de dispersion pour évaluer la dispersibilité - Partie 3: Dispersion à l'aide d'une turbine disperseuse à grande vitesse (ISO 8780-3:1990)

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ICS:

87.060.10 Pigmenti in polnila Pigments and extenders

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EUROPEAN STANDARD

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English version

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

Pigments et matières de charge - Méthodes de dispersion pour évaluer la dispersibilité - Partie 3: Dispersion à l'aide d'une turbine disperseuse à grande vitesse (ISO 8780-3:1990)

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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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European Committee for Standardization
Comité Européen de Normalisation
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Foreword

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

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of an identical text or by endorsement, at the latest by September 1995, and conflicting national standards shall be withdrawn at the latest by September 1995.

According to the 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, United Kingdom.

Endorsement notice

The text of the International Standard ISO 8780-3:1990 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in annex ZA (normative).

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Annex ZA (normative)**Normative references to international publications
with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
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	EN ISO 8781-1	1995
ISO 8781-2	1990	Pigments and extenders - Methods of assessment of dispersion characteristics Part 2: Assessment from the change in fineness of grind	EN ISO 8781-2	1995
ISO 8781-3	1990	Pigments and extenders - Methods of assessment of dispersion characteristics Part 3: Assessment from the change in gloss	EN ISO 8781-3	1995
ISO 8780-1	1990	Pigments and extenders - Methods of dispersion for assessment of dispersion characteristics Part 1: Introduction	EN ISO 8780-1	1995

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INTERNATIONAL STANDARD

ISO
8780-3

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

Part 3:

Dispersion using a high-speed impeller mill

[SIST EN ISO 8780-3:1997](https://standards.iteh.ai/catalog/standards/sist/en-iso-8780-3-1997)

<https://standards.iteh.ai/catalog/standards/sist/en-iso-8780-3-1997> Pigments et matières de charge — Méthodes de dispersion pour évaluer
4 la dispersibilité — ISO-8780-3-1997

Partie 3: Dispersion à l'aide d'une turbine disperseuse à grande vitesse



Reference number
ISO 8780-3:1990(E)

ISO 8780-3:1990(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 8780-3 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*

Annex A forms an integral part of this part of ISO 8780.

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

Part 3:

Dispersion using a high-speed impeller mill

1 Scope

This part of ISO 8780 specifies a method for the dispersion of pigments and extenders using a high-speed impeller mill. It is for use in conjunction with the methods of assessment described in ISO 8781, using an agreed binder system. It should be read in conjunction with ISO 8780-1.

NOTE 1 A high-speed impeller mill may be used either to disperse a pigment fully or partially as a preliminary to further dispersion using other equipment, for example sand or bead mills or attritors.

This method is restricted to mill bases of moderately high viscosity due to either high binder concentration and/or high pigment concentration which produces high shear forces. It is not intended to provide a means of formulating full-scale mill base compositions (scaling up the process from laboratory equipment to factory mills is not simple).

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

ISO 8780-1:1990, *Pigments and extenders — Methods*

of dispersion for assessment of dispersion characteristics — Part 1: Introduction.

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 Required supplementary information

For any particular application, the test method specified in this part of ISO 8780 needs to be completed by supplementary information. The items of supplementary information are given in annex A.

4 Apparatus

Ordinary laboratory apparatus and glassware, together with the following:

4.1 High-speed impeller mill, consisting of a cylindrical vessel and a horizontal disc stirrer blade driven by a motor. A disc with a serrated edge is commonly used.

4.1.1 Drive unit

The power rating of the drive unit shall be sufficient to maintain the peripheral speed of the disc at an agreed value.