

Pigments and extenders — Methods of assessment of dispersion characteristics —

Part 3: Assessment from the change in gloss

The European Standard EN ISO 8781-3:1995 has the status of a
British Standard

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Pigments, Paints and Varnishes Standards Policy Committee (PVC/-) to Technical Committee PVC/1, upon which the following bodies were represented:

- Aluminium Powder and Paste Association
- British Cement Association
- British Railways Board
- Chemical Industries' Association
- Oil and Colour Chemists Association
- Paintmakers Association of Great Britain Ltd
- Titanium Pigment Manufacturers Technical Committee
- Zinc Development Association

This British Standard, having been prepared under the direction of the Pigments, Paints and Varnishes Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 30 April 1991

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National foreword

This Part of BS 3483 has been prepared under the direction of the Pigments, Paints and Varnishes Standards Policy Committee. It is identical with ISO 8781-3:1990 “*Pigments and extenders — Methods of assessment of dispersion characteristics — Part 3: Assessment from the change in gloss*”, published by the International Organization for Standardization (ISO).

In 1994 the European Committee for Standardization (CEN) accepted ISO 8781-3:1990 as European Standard EN ISO 8781-3:1995. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN ISO 8781-3 and any reference to BS 3483-E3 should be read as a reference to BS EN ISO 8781-3.

An introduction is included in ISO 8781-3:1990 which reads as follows.

The development of specular gloss of a pigment in a dispersion is dependent primarily on the amount of work done in the preparation of the dispersion of the pigment in a binder system and the ratio of pigment to the binder system. The ease with which the ultimate specular gloss of a dried coating of the dispersion is achieved may therefore be used to assess the dispersion characteristics of the pigment. Thus, if the ultimate specular gloss can be attained easily, the pigment is considered to be readily dispersible.

The method described consists essentially of three steps:

- a) preparation in stages of a range of dispersions of the pigment in accordance with an appropriate part of ISO 8780;
- b) preparation of dried films of the dispersions and measurement of the specular gloss;
- c) determination of the rate of development of the specular gloss as a function of the amount of work done (the latter is related to the incremental stages of dispersion).

The rate of development of specular gloss is assessed graphically.

Cross-references

International Standard	Corresponding British Standard
	BS 3483 <i>Methods for testing pigments for paints</i>
ISO 8780-1:1990	Part D1:1991 <i>Methods of dispersion for assessment of dispersion characteristics</i> (Introduction) (Identical)
ISO 8780-2:1990	Part D2:1991 <i>Method of dispersion for assessment of dispersion characteristics using an oscillatory shaking machine</i> (Identical)
ISO 8780-3:1990	Part D3:1991 <i>Method of dispersion for assessment of dispersion characteristics using a high-speed impeller mill</i> (Identical)
ISO 8780-4:1990	Part D4:1991 <i>Method of dispersion for assessment of dispersion characteristics using a bead mill</i> (Identical)
ISO 8780-5:1990	Part D5:1991 <i>Method of dispersion for assessment of dispersion characteristics using an automatic muller</i> (Identical)
ISO 8780-6:1990	Part D6:1991 <i>Method of dispersion for assessment of dispersion characteristics using a triple-roll mill</i> (Identical)

Although this standard makes reference to the forthcoming revision of ISO 2813, the committee have reviewed the provisions of ISO 2813:1978, which is identical to BS 3900 “*Methods of test for paint*”, Part D5:1980 “*Measurement of specular gloss of non-metallic paint films at 20°, 60° and 85°*”, and has decided that until the revision of ISO 2813 is published, they are acceptable for use in conjunction with this Part of BS 3483. It is intended to revise BS 3900-D5 to become identical with the revision of ISO 2813 when it is published.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN ISO title page, pages 2 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.