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BRITISH STANDARDS
239, 254, 296, 338, 637, 1481, 1851 : 1952

White Pigments
FOR PAINTS

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WHITE PIGMENTS FOR PAINTS

B.S. 239, 254, 296, 338
637, 1481, 1851 : 1952

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THESE BRITISH STANDARDS, having been approved by the Pigment, Paint and Varnishes Industry Standards Committee, and endorsed by the Chairman of the Chemical Divisional Council, were published under the authority of the General Council on 12th March, 1952.

B.S. 239. First published, March, 1926.
B.S. 254. First published, June, 1926.
B.S. 296. First published, August, 1927.
B.S. 338. First published, October, 1928.
B.S. 392. First published, March, 1929.
First revisions, December, 1935.
Second revisions, March, 1952.
B.S. 636. First published, December, 1935.
B.S. 637. First published, December, 1935.
B.S. 1269. First published, September, 1945.
B.S. 1481. First published, October, 1948.
First revisions, March, 1952.
B.S. 1851 (combining 392, 636, 1269).
First published, March, 1952.

The Institution desires to call attention to the fact that these British Standards do not purport to include all the necessary provisions of a contract.

A complete list of British Standards, numbering over 1700, indexed and cross-indexed for reference, together with an abstract of each standard will be found in the Institution's Yearbook, price 7s. 6d. post free.

These standards make reference to the following British Standards :—

B.S. 242. Refined linseed oil.
B.S. 245. White spirit.
B.S. 259. Boiled linseed oil.
B.S. 286. Lamp (or vegetable) black for paints.
B.S. 314. Ultramarine blue for paints.
B.S. 410. Test sieves.
B.S. 950. Artificial daylight fittings for colour matching.
B.S. 1733. Flow cups.
B.S. 1795. *Extenders for paints.

British Standards are revised, when necessary, by the issue either of amendment slips or of revised editions. It is important that users of British Standards should ascertain that they are in possession of the latest amendments or edition.

~~*In course of preparation.~~

PVC/

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CO-OPERATING ORGANIZATIONS

The Pigments, Paints and Varnishes Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives of the following Government departments and scientific and industrial organizations :—

*Admiralty
*Association of British Chemical Manufacturers
*Board of Trade
*British Colour Makers' Association
*British Railways, The Railway Executive
*Crown Agents for the Colonies
Department of the Government Chemist
*D.S.I.R.—Building Research Station
*General Post Office
*Institute of British Decorators
*Lead Oxide Convention
*Ministry of Supply
*Ministry of Works
*National Paint Federation
*Oil and Colour Chemists' Association
*Paint Manufacturers and Allied Trades' Association
*Research Association of British Paint, Colour and Varnish Manufacturers
Royal Institute of British Architects
*Society of British Paint Manufacturers Ltd.
*Titanium Pigment Manufacturers' Technical Committee
*White Lead Convention
*Zinc Development Association
*Zinc Pigment Development Association

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this standard :—

British Barytes Producers' Association
British Electrical and Allied Manufacturers' Association
British Iron Oxide (Synthetic) Manufacturers' Group
Imperial Chemical Industries Ltd.
National Federation of Master Painters and Decorators of England and Wales
Non-Convention White Lead Manufacturers

BRITISH STANDARD SPECIFICATIONS FOR

WHITE PIGMENTS

FOREWORD

This publication includes the revisions of seven British Standards for white pigments which were originally published as separate documents and were grouped together and revised in 1935. The British Standard for Leaded zinc oxide, B.S. 1481, originally published separately in 1948 has also been included in this publication which now embodies all the British Standards for white pigments.

The original B.S. numbers have been retained, except for the titanium dioxide pigments, which have been combined in one specification as B.S. 1851, superseding the previous issues, B.S. 392, B.S. 636 and B.S. 1269.

Opportunity has been taken to secure, where possible, uniformity of wording in the clauses and tests with those of the other British Standards for pigments for paints.

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BRITISH STANDARD SPECIFICATION

B.S. 239 : 1952

GENUINE WHITE LEAD FOR PAINTS

SCOPE AND DESCRIPTION

1. This British Standard applies to genuine white lead for use in paints. The material shall consist of hydroxy-carbonate of lead in the form of a dry soft powder, or in such a condition that it may be readily reduced thereto by crushing under a palette knife, without necessitating any grinding action.

COMPOSITION

2. The material, after drying as described in Appendix F, shall contain not less than 99·0 per cent of hydroxy-carbonate of lead which shall consist of not less than 20 per cent and not more than 37 per cent of lead hydroxide chemically combined with not more than 80 per cent and not less than 63 per cent of normal carbonate of lead.

RESIDUE ON SIEVE

3. The material shall not leave more than 0·3 per cent of residue when tested in the manner described in Appendix B.

OIL ABSORPTION VALUE

4. The oil absorption value of the material when determined in the manner described in Appendix C, shall be within ± 10 per cent of the oil absorption value of an agreed sample.

NOTE. The oil absorption value of normal commercial grades of white lead is usually between 7 and 13.

COLOUR

5. The colour of the material shall closely match that of an agreed sample when compared in the manner described in Appendix D.

REDUCING POWER

6. The reducing power of the material shall not be inferior to that of an agreed sample when compared in the manner described in Appendix E.

MATTER VOLATILE AT 98-102°C.

7. The loss in weight on heating the material in the manner described in Appendix F, shall not exceed 0·5 per cent.

MATTER SOLUBLE IN WATER

8. The material shall yield not more than 0·5 per cent of matter soluble in water when tested in the manner described in Appendix G.

The alkalinity of the aqueous extract when determined as described in Appendix G, shall not exceed the equivalent of 0·1 per cent of sodium carbonate (Na_2CO_3) calculated on the material.

AGREED SAMPLE

9. Except where otherwise agreed between purchaser and vendor the agreed sample referred to in Clauses 4, 5 and 6 shall be the same sample and shall comply in all respects with the requirements of this specification. The sample shall weigh not less than 1 lb., and shall be packed in the manner described in Appendix A.

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