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Standard Specification for BASIC SULFATE WHITE LEAD¹

This Standard is issued under the fixed designation D 82; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval.

1. Scope

1.1 This specification covers the pigment commercially known as basic sulfate white lead. The pigment may be purchased in the dry form or as a paste in oil.

2. Composition and Properties

2.1 *Dry Pigment*—The pigment shall conform to the following requirements:

Lead oxide, percent	15 to 28
Zinc oxide, max, percent	5.0
Total impurities, including moisture and other volatile matter, max, percent	1.0
Lead sulfate	remainder
Coarse particles (total residue retained on a No. 325 (45- μ m) sieve), max, percent	1.0

2.2 *Paste in Oil*—The paste shall be made by thoroughly grinding the specified pigment with linseed oil. The paste as received shall not be caked in the container and shall break up readily in oil to form a smooth paint of brushing consistency. It shall mix readily in all proportions, without curdling, with linseed oil, turpentine, or volatile petroleum spirits, or any mixture of these substances. The paste shall conform to the following requirements:

Pigment, min, percent	84
Linseed oil, max, percent	16
Moisture and other volatile matter, max, percent	0.7
Coarse particles and skins (total residue retained on a No. 325 (45- μ m) sieve), max, percent of the dry pigment	1.5

2.3 The color and color strength, when specified, shall be equal to that of a reference sample mutually agreed upon by the purchaser and the seller.

3. Number of Tests

3.1 Two samples shall be taken at random from different packages from each lot, batch, day's pack, or other unit of production in a shipment. When no markings distinguishing between units of production appear, samples shall be taken from different packages in the ratio of two samples for each 10,000 lb (4540 kg), except that for shipments of less than 10,000 lb two samples shall be taken. At the option of the purchaser, the samples may be tested separately or after blending in equal quantities the samples from the same production unit to form a composite sample.

4. Methods of Test

4.1 Tests shall be conducted in accordance with the appropriate methods of the American Society for Testing and Materials, where applicable. Test procedures not covered by ASTM methods shall be mutually agreed upon by the purchaser and the seller.

¹ This specification is under the jurisdiction of ASTM Committee D-1 on Paint, Varnish, Lacquer, and Related Products.

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