



Standard Specification for BLUE LEAD; BASIC SULFATE¹

This Standard is issued under the fixed designation D 405; 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 blue lead, basic sulfate, suitable for use in paints. The pigment may be purchased in the dry form or as a paste in oil.

2. Composition and Properties

2.1 *Dry Pigment*—The dry pigment shall consist of basic lead sulfate and certain other ingredients, which upon analysis shall conform to the following requirements:

	Percent
Lead sulfate, min	45
Lead oxide, min	30
Lead sulfide, max	12
Lead sulfite, max	5.0
Zinc oxide, max	5.0
Carbon and undetermined matter, max	5.0
Coarse particles (total residue retained on a No. 325 (45- μ m) sieve), max	1.0

2.2 *Paste in Oil*—The paste shall be made by thoroughly grinding the 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:

	Percent
Pigment, min	89
Linseed oil, max	11
Moisture and other volatile matter, max	0.7
Coarse particles and skins (total residue retained on a No. 325 (45- μ m) sieve), max of the dry pigment	1.5

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 (4 540 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.

¹ This specification is under the jurisdiction of the ASTM Committee D-1 on Paint and Related Coatings and Materials.

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