

StandardGuide for Chemical Analysis of White Pigments¹

This standard is issued under the fixed designation D34; 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. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This guide covers procedures for the chemical analysis of white pigments.

2. Referenced Documents

- 2.1 ASTM Standards:²
- C471M Test Methods for Chemical Analysis of Gypsum and Gypsum Products (Metric)
- D715 Test Methods for Analysis of Barium Sulfate Pigment D717 Test Methods for Analysis of Magnesium Silicate Pigment
- D718 Test Methods for Analysis of Aluminum Silicate Pigment
- D1199 Specification for Calcium Carbonate Pigments
- D1301 Test Methods for Chemical Analysis of White Lead PigmentsD1394 Test Methods for Chemical Analysis of White Tita-
- D1394 Test Methods for Chemical Analysis of White Titanium Pigments

Current edition approved Feb. 1, 2008. Published March 2008. Originally approved in 1915. Last previous edition approved in 2003 as D34 – 91 (2003). DOI: 10.1520/D0034-08.

D3280 Test Methods for Analysis of White Zinc Pigments

3. Significance and Use

3.1 This compilation of available ASTM methods for the analysis of white pigment serves as a guide to chemists.

4. Test Methods

4.1 Tests shall be conducted in accordance with the following ASTM methods. Test procedures not covered by ASTM methods shall be agreed upon by the purchaser and seller.

- 4.2 Lead Pigments—Test Methods D1301.
- 4.3 Zinc Pigments—Test Methods D3280.
- 4.4 Titanium Dioxide Pigments—Test Methods D1394.

4.5 Calcium Carbonate Pigments: Whiting, Paris White, Spanish White, Chalk—Specification D1199.

4.6 Calcium Sulfate Pigments: Gypsum, Terra Alba, Plaster of Paris—Test Methods C471M.

4.7 Barium Pigments: Barytes or Barite and Blanc Fixe— Test Methods D715.

4.8 China Clay—Test Method D718. m-d34-08

4.9 Magnesium Silicate—Test Methods D717.

5. Keywords

5.1 chemical analysis; white pigment

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¹ This guide is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.31 on Pigment Specifications.

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