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Standard Specification for Gold Bronze Powder¹

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1. Scope

1.1 This specification covers the materials commercially known as gold bronze, pale gold bronze, and rich gold bronze powders.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D13 Specification for Spirits of Turpentine

D185 Test Methods for Coarse Particles in Pigments

D480 Test Methods for Sampling and Testing of Flaked Aluminum Powders and Pastes

2.2 *U.S. Federal Specification:*

A-A-1800 Water-Resisting Spar Varnish³

3. Composition and Properties

3.1 The bronze powder shall be made from new ingot metals. It shall consist of fine polished flakes containing not less than 3 % of fatty or oily matter (polishing lubricant) to give good “leafing” properties.

¹ This specification 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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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, <http://www.dodssp.daps.mil>.

3.2 The residue retained on a No. 100 (150- μ m) sieve, using alcohol as the wash liquid, shall not exceed 0.2 % (in accordance with Test Methods D185).

3.3 The powder shall have good “leafing” properties. (By “leafing” is understood the property of forming an apparently continuous brilliant film over the entire free surface of a mixture of the powder in a suitable liquid (Note 1), within 1 min after cessation of stirring the mixture.) In testing for leafing properties the powder shall be mixed in the proportion of 3 to 4 lb (370 to 475 g/L) to a gallon (3.8 L) of the liquid. As thus mixed it shall also give a free flowing, smooth, continuous coating in accordance with Test Methods D480.

NOTE 1—A suitable liquid is made by mixing spar varnish conforming to the U. S. Federal Specification for Water-Resisting Spar Varnish (No. A-A-1800) with turpentine conforming to Specification D13 in such proportions that the mixture will have a viscosity of 0.65 to 0.85 poises (B to C on the Gardner-Holdt scale).

3.4 The gold bronze powder shall be suitable for making gold bronze paint. It shall match in shade and fineness a reference sample mutually agreed upon by the purchaser and the seller.

4. Sampling

4.1 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 5 tons (inch-pound or SI), 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.

5. Test Methods

5.1 Test shall be conducted in accordance with the appropriate methods of ASTM International, where applicable. Test procedures not covered by ASTM methods shall be mutually agreed upon between the purchaser and the seller.

6. Keywords

6.1 bronze powders; leafing; spar varnish

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