Standard Specification for Wet Ground Mica Pigments¹

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

1. Scope

1.1 This specification covers two types of finely divided muscovite mica, commercially known as wet ground mica, suitable for use in the manufacture of protective coatings.

2. Referenced Documents

2.1 ASTM Standards:²

Pigments

D185 Test Methods for Coarse Particles in Pigments
D280 Test Methods for Hygroscopic Moisture (and Other
Matter Volatile Under the Test Conditions) in Pigments
D716 Test Methods for Evaluating Mica Pigment
D1208 Test Methods for Common Properties of Certain

3. Composition and Properties

3.1 The pigments shall be made by wet grinding muscovite mica and shall conform to the requirements for properties prescribed as follows:

	Types	
	A Regular 325 M Grade	B Fine Grade
Apparent density, max, lb/ft ³ (g/cm ³)	12.0 (0.2)	12.0 (0.2)
Moisture and other volatile matter, max, weight %	0.5	0.5
Grit, max, weight % Coarse particles, max, weight %:	0.5	0.5

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.

	Types	
	Α	В
	Regular 325 M Grade	Fine Grade
Total residue retained on a No. 140 (106-µm) sieve	0.1	0.01
Total residue retained on a No. 325 (45-µm) sieve	12.0	3.0
Ignition loss, max, weight % (dry basis)	5.0	5.0

3.2 The color shall be within mutually agreed upon limits of a standard acceptable to both 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 Tests shall be conducted in accordance with the appropriate ASTM methods. Test procedures not covered by ASTM methods shall be mutually agreed upon between the purchaser and the seller.
 - 5.1.1 Apparent Density—Test Methods D716.
 - 5.1.2 *Moisture*—Test Methods D280.
 - 5.1.3 Grit—Test Methods D716.
 - 5.1.4 Coarse Particles—Test Methods D185.
 - 5.1.5 *Ignition Loss*—Test Methods D1208.

6. Keywords

6.1 mica; muscovite; wet ground

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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.

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