Designation: ~~D1799 – 03a (Reapproved 2008)~~ D1799 – 03a (Reapproved 2014)

Standard Practice for Carbon Black—Sampling Packaged Shipments[1]

This standard is issued under the fixed designation D1799; 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 U.S. Department of Defense.

1. Scope

1.1 This practice covers the sampling of packaged carbon blacks for shipment in bags, cartons, flexible intermediate bulk containers (FIBC), or other non-bulk packages.

NOTE 1—The tests to be made on the samples obtained by this practice shall be determined by the producer and the consumer. The specific details of each test method are described in appropriate ASTM methods used for testing carbon black.

1.2 The values stated in SI units are to be regarded as the standard. The values in parentheses are for information only.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*[2]

D1509 Test Methods for Carbon Black—Heating Loss

D5817 Practice for Carbon Black, Pelleted—Reduction, Blending, and Drying of Gross Samples for Testing

3. Significance and Use

3.1 This practice is for use in obtaining representative samples of carbon black from the packages in the shipment. These samples are used to determine the average quality or variability of the shipment.

4. Apparatus

4.1 *Sample Splitter,* riffle-type (see Practice D5817 for equipment information).

4.2 *Sample Containers,* airtight, 4 dm^3 (1-gal) capacity.

4.3 *Scoop,* sample.

5. General

5.1 Packaged shipments of carbon blacks most often consist of 11.35-kg (25-lb), 22.7-kg (50-lb), 25-kg (55-lb), or 50-kg (110-lb) bags. Flexible intermediate bulk containers usually range in size from 180 kg (396 lb) to 1300 kg (2860 lb). This practice may be applied to bags or FIBCs of other sizes. These packages are loaded into vans in definite patterns agreed upon by the producer and the consumer. These may be in the form of unit loads, stacks, or individual FIBCs. In each case, a shipment involves a given number of packages, units, tiers, or mass.

5.2 Samples are taken to evaluate conformance to specified requirements. Multiple samples may be taken to evaluate conformance or uniformity, or both, of a lot. The number of samples, their location within the lot, and the quantity of the samples is determined by the purpose for taking the samples. A lot shall be sampled as prescribed at the point of manufacture or at the receiving point as agreed upon by the producer and the consumer. Samples may be taken from the packages as loaded or as received. Each sample taken shall represent a unit, lot, or approximately equal mass of material. Generally, it is desirable to take

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[1] This practice is under the jurisdiction of ASTM Committee D24 on Carbon Black and is the direct responsibility of Subcommittee D24.61 on Carbon Black Sampling and Statistical Analysis.

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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.