[INCH-POUND] A-A-59239 12 May 1998 SUPERSEDING MIL-D-20550B 8 August 1968

# COMMERCIAL ITEM DESCRIPTION DIATOMACEOUS EARTH

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

- 1. SCOPE. This commercial item description (CID) covers the requirements for diatomaceous earth which is intended for use in chemical manufacturing as an inert filler and as a filter aid in filtration and purification processes. Grades B and C are also used in the formulations of pyrotechnic igniters as burning rate modifiers. This material is not intended for use in water purification equipment for field use or in paint as a pigment or filler.
- 2. CLASSIFICATION. This diatomaceous earth shall be of the following grades. The grade to be furnished shall be as specified (see 7.2).

Grade A - Natural
Grade B - Flux calcined
Grade C - Calcined

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Defense Supply Center Richmond, ATTN: DSCR-VBD, 8000 Jefferson Davis Highway, Richmond, VA 23297-5610.

AMSC N/A FSC 9390 DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

## 3. SALIENT CHARACTERISTICS

3.1 General requirements. The diatomaceous earth shall meet the requirements as specified in table 1.

		Grade		
Requirement	Α	В	С	Test method
Percent SiO <sub>2</sub> on a dry basis (min)	87.0	87.0	87.0	ASTM D717
Fineness (retained on a No. 150 US std. sieve) percent (max)	3.0	7.0	10.0	ASTM C430
Fineness (retained on a No. 325 US std. sieve) percent (max)	8.0	-		ASTM C430
Ignition Loss (corrected for moisture) percent (max)	7.0	0.5	0.5	ASTM D1208
Moisture percent (max)	6.0	1.0	1.0	
Oil absorption (min)	139	139	139	ASTM D1483
Oil absorption (max)	230	210	210	ASTM D1483

TABLE I. Performance requirements.

# 4. REGULATORY REQUIREMENTS

- 4.1 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirement, and promotes economically advantageous life cycle costs.
- 4.2 <u>Environmental protection</u>. The item shall meet all applicable Environmental Protection Agency restrictions in effect on the date of the contract. These regulations apply to the emission of materials hazardous to the environment or the user's health and shall be met during the manufacturing, service, transportation, storage, and operation/use of the item.

## 5. QUALITY ASSURANCE PROVISIONS

- 5.1 <u>Product conformance</u>. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.
- 6. PACKAGING. Preservation, packing, and marking shall be as specified (see 7.2).

#### 7. NOTES

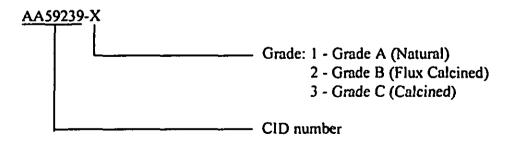
- 7.1 Sources of documents.
- 7.1.1 Government documents. Copies of Military and Federal documents may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.
- 7.1.2 <u>Industry standards</u>. Copies of industry standards referenced in this CID may be obtained from the following address:

American Society for Testing and Materials (ASTM)

ASTM C430	Fineness of Hydraulic Cement by the 45-[mu] m (No. 325) Sieve
ASTM D717	Analysis of Magnesium Silicate Pigment
ASTM D1208	Common Properties of Certain Pigments
ASTM D1483	Oil Absorption of Pigments by Gardner-Coleman Method

Applications for copies should be sent to the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

- 7.2 Ordering data. Acquisition documents must specify the following:
  - a. Title, number, and date of this document.
  - b. Grade of diatomaceous earth required (see 2).
  - c. Preservation, packing, and marking shall be as specified (see 6).
- 7.3 <u>Part identification number (PIN)</u>. The following part identification numbering procedure is for Government purposes and does not constitute a requirement for the contractor.



A-A-59239

MILITARY INTERESTS:

PREPARING ACTIVITY: DLA - GS

<u>Custodians</u>

Army - AL

Air Force - 99

(Project 9390-0006)

Reviewers

Air Force - 84