

[NON-MEASUREMENT SENSITIVE]
A-A-2667A
July 11, 1997
TO SUPERCEDE
A-A-2667
April 20, 1990

COMMERCIAL ITEM DESCRIPTION

SAND, SANDBLAST

The General Services Administration has authorized the use of this commercial item description (CID) by all federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This commercial item description covers sand for the removal of scale, paint, sand which adheres to castings, and corrosion from metal surfaces.

2. CLASSIFICATION.

2.1 Classification. The sand shall be of the following grades and classes, as specified (see 7.2).

Grade A (95 percent silicon dioxide, SiO₂).

- Class 1
- Class 2
- Class 3
- Class 4
- Class 5

Grade B (80 percent silicon dioxide, SiO₂).

- Class 1
- Class 2
- Class 3
- Class 4
- Class 5

3. GENERAL REQUIREMENTS.

3.1 Material. The sand shall consist of siliceous grains free of dirt, clay, caustic and corrosive substances, and water soluble materials. Calcium chloride or sodium chloride content shall not exceed 0.03 percent. The sand shall meet the requirements as stated herein.

3.1.1 Grade A. Grade A sand shall contain a minimum of 95 percent silicon dioxide (SiO₂). Unless otherwise specified (see 7.2), the loss upon ignition shall not exceed 1.0 percent and the moisture content shall not exceed 0.5 percent at the point of shipment.

3.1.2 Grade B. Grade B sand shall contain a minimum of 80 percent silicon dioxide (SiO₂). Unless otherwise specified (see 7.2), the loss upon ignition shall not exceed 1.0 percent and the moisture content shall not exceed 0.5 percent at the point of shipment.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any other data which may improve this document should be sent to: General Services Administration, Engineering Branch (7FXEE), 819 Taylor Street, Fort Worth, TX 76102.

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TABLE 1. Requirements

TYPE OF REQUIREMENT	GRADE A	GRADE B	SPECIFICATION PROCEDURE
Silicon Dioxide (SiO ₂)	95% min.	80% min.	ASTM C 146 and ASTM C 169 (Single Dehydration Method)
Moisture content (at shipping point)	0.5% max.	0.5% max.	ASTM C 575
Ignition loss (at shipping point)	1.0% max.	1.0% max.	ASTM C 146A
Sieve analysis	See Table 2		ASTM C 136 and ASTM D 1214

3.2 Sieve analysis. The sieve analysis shall be in accordance with Table 1. The percentages retained shall be in accordance with Table 2 for the particular class analyzed. The grain shape shall be angular to round.

TABLE 2. Sieve analysis (Grade A and B)

U.S. Sieve # standard	Percent retained				
	Class 1	Class 2	Class 3	Class 4	Class 5
4	-	-	-	-	0
6	-	-	-	0	0-5
8	-	-	-	0-5	20-50
10	-	-	0	0-20	30-75
12	-	-	0-5	10-30	75-95
16	-	0	0-20	60-90	95-100
20	0	0-5	10-50	80-100	trace
30	0-10	5-65	30-90	95-100	-
40	15-60	30-95	80-100	trace	-
50	75-100	70-95	95-100	-	-
70	90-100	95-100	trace	-	-
100	95-100	trace	-	-	-
Pan	trace	trace	-	-	-

3.3. Material safety data sheet (MSDS). The contracting activity shall be provided a MSDS at the time of contract award. The MSDS is form OSHA-20, found as part of FED-STD-313. The MSDS shall be included with each shipment of the material.

3.4. Workmanship. The abrasive grain shall be uniform in appearance, non-caking and free flowing. Shall be suitable for cleaning metal surfaces by blasting without deforming, marring, or scratching the surfaces being cleaned. The abrasive material shall not contain foreign grit or other extraneous materials that will affect serviceability. The material shall perform in a mostly dust free manner. Used (reprocessed) abrasive materials shall not be furnished when Class 1 grain is specified.

4. REGULATORY REQUIREMENTS

4.1 Regulatory Requirements. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. QUALITY ASSURANCE PROVISIONS.

5.1 Product Conformance. The products provided shall meet the general requirements and characteristics of this CID, 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.

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7.3 REFERENCED DOCUMENTS

7.3.1 ANSI standards are available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036.

7.3.2 ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA., 19428-2959.

7.3.3 Copies of Federal Standards can be obtained from GSA/FSSB (3FBP-W), Specifications Section, Suite 8100, 470 L'Enfant plaza, SW, Washington, DC 20407, (202) 619-8925.

MILITARY INTERESTS:

PREPARING ACTIVITY:

Custodian:
Air Force - -99

GSA - FSS

Review Activity:
Air Force - 84

User Activity:
Navy - AS, SH