

A-A-1047A  
April 1, 1987  
SUPERSEDING  
A-A-1047  
April 17, 1980

## COMMERCIAL ITEM DESCRIPTION

### PAPER, ABRASIVE, SILICON CARBIDE, WATERPROOF

The General Services Administration, has authorized the use of this commercial item description in preference to Federal Specification P-P-101E.

This description covers waterproof abrasive paper, coated on one surface with silicon carbide grain.

#### Salient characteristics:

1. Waterproof abarsive paper shall be in the following grit sizes (grades) as specified: 600, 500, 400, 360, 320, 280, 240, 220, 180, 150, 120, 100, 80, and 60.
2. The abrasive grain shall be crushed from abrasive grade silicon carbide graded in accordance with ANSI B74.18.
3. The final product shall be closed coat. The abrasive grain shall completely and uniformly cover the surface of the backing.
4. The backing paper used shall be of a quality suitable for the intended use and treated with a saturant which will render it waterproof.
5. The adhesive shall be of a good quality drying oil, varnish or other suitable adhesive which will minimize dislodging of the grain from the backing under hard wet or dry usage of the coated product. Bonding of the abrasive grain to the backing shall be equal to or better than that considered good commercial quality.
6. The coated product shall meet the requirements listed in TABLE I below:

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TABLE I

| GRIT SIZES                                     | BACKING WEIGHT | AVERAGE BREAKING STRENGTH |                 |
|--|----------------|---------------------------|-----------------|
|  |                | MACHINE DIRECTION         | CROSS DIRECTION |
| 600, 500, 400, 360, 240, 220                   | 48             | 18 lbs/in                 | 12 lbs/in       |
| 360, 320, 280, 240, 220, 180, 150, 100, 80, 60 | 80             | 35 lbs/in                 | 20 lbs/in       |

7. Sheet - Unless otherwise specified, the abrasive shall be furnished in 9 X 11 inch sheets.

Dimensional tolerance. Sheet size shall be accurate within plus or minus 1/8 inch in length and plus or minus 1/16 inch in width.

Backing Weight. The paper plus saturant backing weight shall be within plus or minus 15 percent of the value shown in TABLE I. The value shown in TABLE I is based on 2880 square feet after conditioning to reach a moisture equilibrium with an atmosphere of 50 plus or minus 2 percent relative humidity at 70 plus or minus 2 degrees F.

Breaking strength (coated product). The breaking strength values shown in TABLE I shall be determined in accordance with ASTM Method D828.

Identification marking. Coated abrasive sheets shall be marked in a legible manner with the manufacturer's name or trademark, kind of abrasive, grit size, waterproof designation, and backing weight or industry designation ("A" for 48 pound, "C" for 80 pound).

Workmanship. Cracks, uneven distribution of grit, frayed edges, or other imperfections shall not be present to impair the serviceability of abrasive sheets. The workmanship shall be equal to better in every respect to that which is considered good practice by industry.

Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

Sampling.

Lot. All sheets of the same grit size and backing presented for inspection at one time shall be considered a lot for purposes of inspection.

Sampling for quality conformance examination. A random sample of abrasive sheets shall be selected from each lot in accordance with MIL-STD-105 inspection level I, AQL 2.5 expressed in terms of percent defective.

Sampling for tests. Samples for test shall be selected in accordance with the appropriate test method cited.

Certification of grading, breaking strength and backing weight. When specified in the contract or purchase order, a certificate of conformance may be furnished in lieu of actual testing on a lot by lot basis providing that:

- (1) Objective evidence dated not more than two (2) years prior to the date of the start of the contract as described in the solicitation or date of the purchase order as applicable shall be available.
- (2) Tests specified in the industry standards referenced herein have been performed by an independent test facility acceptable to the Government.
- (3) That the product being offered is the same type and grade of abrasive and backing material and has been manufactured using the same material, processes and manufacturing techniques as the product tested.

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Examination for preparation for delivery. A random sample of unit, intermediate and shipping containers (as applicable) shall be selected from each lot and examined for conformance with the preservation, packaging, packing, labeling and marking required in the contract or order. Samples shall be selected in accordance with MIL-STD-105, Inspection level II, AQL 6.5 expressed in terms of defects per hundred unit.

The issues of ANSI B74.18 and ASTM D828 in effect on the date of the solicitation or purchase order shall be used to determine compliance with these requirements.

Regulatory requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

Preservation, packaging, packing, labeling, and marking. The preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order.

Packaging (DOD). The packaging shall be in accordance with ASTM Standard D3951.

Notes:

When certification of grading, breaking strength and backing weight in lieu actual testing is acceptable the purchaser should so specify in the procurement document.

ANSI standards are available from the American National Standards Institute, 1430 Broadway, New York, NY 10018.

ASTM standards are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

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MILITARY INTERESTS:

PREPARING ACTIVITY:  
GSA-FSS

Military Coordinating Activity:

YD

Custodians:

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Review Activity:

AT, ME