

METRIC

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SUPERSEDING
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COMMERCIAL ITEM DESCRIPTION

CLOTHS, CLEANING, LOW-LINT

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 two low-lint type cleaning cloths.

2. CLASSIFICATION. The cleaning cloths shall conform to the following types:

- Type I - For clean room use – requiring ultra-clean, low lint wipers.
- Type II - For general use – requiring low-lint, highly absorbent wipers, but not clean room standards.

3. SALIENT CHARACTERISTICS.

3.1 Material. The cleaning cloths shall be of a knit construction consisting of virgin stretch-textured continuous filament nylon or polyester yarn. Spun yarns shall not be used.

3.2 Dimensions. Each cleaning cloth shall be between 1,300 and 2,000 square centimeters (201.5 and 310 square inches) except that 10 percent of the lot may be between 1,000 and 1,300 square centimeters (155 and 201.5 square inches) and 10 percent may be between 2,000 and 2,600 square centimeters (310 and 403 square inches). Unless otherwise specified, each cloth shall be a rectangular, flat sheet (not a tube or cylinder) with a minimum width of 25.4 centimeters (10 inches) and shall be symmetrical within 2.5 centimeters (1 inch). The length shall not exceed twice the width of any cloth. All dimensions shall be determined without stretching the cloth. The cleaning cloths shall not contain any seams or stitching.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Commander, Naval Air Warfare Center Aircraft Division (Code 491000B120-3), Highway 547, Lakehurst, NJ 08733-5100 or emailed to Thomas.Omara@navy.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <http://assist.daps.dla.mil>

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3.3 Color. The color of the cleaning cloths shall be white, unless otherwise specified by the acquiring activity.

3.4 Physical properties. The cleaning cloths shall conform to the requirements specified in table I.

TABLE I. Physical properties.

| CHARACTERISTIC | REQUIREMENT | | TEST METHOD OR PARAGRAPH |
|--|---------------------------------------|--|--|
| | Type I | Type II | |
| Weight, grams/square meter (ounces/square yard): Minimum Maximum | 101.7 (3.0) 305.2 (9.0) | 101.7 (3.0) 305.2 (9.0) | ASTM-D3776, Option C |
| Oil absorption, percent, minimum | 160 | 160 | 3.4.1 |
| Antistatic properties: <u>1/</u> Surface resistivity, ohms/unit square, maximum Dissipation time, seconds, maximum <u>2/</u> | 1×10^{11} 2.0 | 1×10^{11} 2.0 | NFPA-56A MIL-STD-3010 Method 4046 |
| Particle count, maximum/square centimeter (size in microns): 5 – 10 11 – 25 26 – 50 51 – 100 Over 100 | 1,600 160 45 20 3 | 10,000 2,150 225 50 10 | 3.5 and FED-STD-791, Method 3009.3 |
| Particulate contaminants, 5 microns and over, particles/square meter (particles/square foot), maximum | 21,528 (2,000) | – | ASTM-F51 |

1/ Conformance shall be shown to either of the antistatic requirements, dependent upon available testing equipment.

2/ In exception to the conditioning requirements of MIL-STD-3010, Method 4046, all samples for testing shall be conditioned in accordance with MIL-STD-3010 test room conditions.

3.4.1 Oil absorption. Weigh each conditioned specimen (specimen shall be not less than 1,300 square centimeters) individually to the nearest 0.01 gram. Three samples shall be tested and the results averaged. Immerse the specimens in hydraulic fluid (see 6.3) in a manner that the fluid completely surrounds the specimens and that no specimen touches any other specimen or the sides of the container. Immediately after 1 minute, remove the specimens from the fluid and suspend them individually without touching by one corner until no drop forms in 30 seconds.

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Reweigh each specimen individually to the nearest 0.01 gram and calculate the percent absorption as follows:

$$\text{Percent oil absorption} = \left(\frac{A - B}{B} \right) \times 100$$

where A = final weight of specimen
B = initial weight of specimen

3.5 Particle count determination. A sample of new hydraulic fluid conforming to MIL-PRF-5606 shall be filtered through a 0.8 micrometer cellulose ester membrane filter, followed by filtration through a 0.45 micrometer cellulose ester membrane filter. The filtered hydraulic fluid shall then be placed in a 1-liter container. The quantity of oil used shall be such that with the cloth immersed in it, the free space above the oil level shall be not less than 20 percent nor more than 30 percent of the container volume. The container shall be stoppered with a non-shedding plastic film and agitated for 15 minutes by a shaker capable of biaxial motion. Immediately at the conclusion of the 15 minute agitation period, a sample of oil shall be drawn and the particle count determined in accordance with FED-STD-791, Method 3009.3.

3.6 First article inspection. When specified in the contract or order, samples shall be subjected to first article inspection (see 4.3, 4.3.1 and 6.2.1).

4. PRODUCT CONFORMANCE.

4.1 Product conformance. The cleaning cloths provided shall meet the salient 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 marketplace. The Government reserves the right to require proof of such conformance.

4.2 Market acceptability. The following market acceptability criteria are necessary to document the quality of the product to be provided under this CID.

4.2.1 The company producing the cleaning cloths must have been producing a product meeting the requirements of this CID for at least 6 months.

4.3 First article inspection. The first article inspection of the wiping cloths shall consist of all the tests and examination of this CID.

4.3.1 First article inspection samples. Unless otherwise specified, as soon as practicable after award of the contract or order, the contractor shall submit 2.27 kilograms (kg) (5 pounds (lb)) of cleaning cloths for each type ordered in the contract or order to first article examination and

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testing. These samples shall be representative of the construction, workmanship and materials to be used during production. When a contractor is in continuous production of these wiping cloths from contract to contract, submission of further first article inspection samples, on the new contract may be waived at the discretion of the procuring activity. Approval of first article inspection samples or the waiving of first article inspection does not waive the requirements for the contractor to ensure conformance of cleaning cloths furnished under the contract or order.

5. PACKAGING.

5.1 Preservation, packing, and marking. Preservation, packing, and marking shall be as specified in the contract or order.

6. NOTES.

6.1 Source of documents.

6.1.1 ASTM Standards are available from the ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

6.1.2 Federal Standards and Specifications may be obtained from the General Services Administration Specifications Section, Suite 8100, 470 E. L'Enfant Plaza, SW, Washington, DC 20407.

6.1.3 NFPA Standards are available from the National Fire Protection Association, Battery March Park, Quincy, MA 02269.

6.1.4 Department of Defense Standards are available online at <http://assist.daps.dla.mil/quicksearch> or <http://assist.daps.dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.

6.2 Ordering data. Requests, requisitions, schedules, and contracts or orders should specify the following:

- a. Title, number, and date of this CID.
- b. Type, quantity, and dimensions of cloths required.
- c. Preservation, packing, and marking.
- d. Whether first article inspection is required (see 6.2.1).

6.2.1 First article. When required, the procuring activity should specify the requirement for first article inspection (3.6). Invitations for bid should provide that the Government reserves the right to waive first article inspection to those bidders offering a product which has been previously

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acquired and subjected to first article inspection, and that bidders offering such products, who wish to rely on such production must furnish evidence with the bid prior to Government.

6.3 Hydraulic fluid. The oil absorption test can be performed using the oils specified in the current revision of QPL-5606.

6.4 National Stock Numbers (NSNs). The following is a list of assigned NSNs that correspond to this CID. The list may not be indicative of all possible NSNs associated with this CID.

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6.5 Key words.

Absorbent
Antistatic
Particle count
Ultra-clean
Wipers

MILITARY INTERESTS:

Custodians:
Army - GL
Navy - AS

Review activity:
Navy - MC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

Preparing activity:
Navy - AS

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