

[INCH-POUND]  
A-A-2950A  
April 29, 1996  
SUPERSEDING  
A-A-2950  
October 10, 1995

## COMMERCIAL ITEM DESCRIPTION

### CLOTH, COATED, VINYL RESIN, EXPANDED LAYER, FOR UPHOLSTERY (ARTIFICIAL LEATHER)

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

#### 1. SCOPE

1.1 Scope. This commercial item description covers fire, mildew, and oil resistant coated cloth composed of a knitted base cloth coated with a secondary expanded vinyl foam layer and an outer vinyl wear layer, primarily intended for upholstery material.

#### 2. SALIENT CHARACTERISTICS

2.1 Standard commercial product. The vinyl coated cloth shall be the manufacturer's standard commercial product except for any changes necessary to conform to this commercial item description.

2.2 Coated cloth. The base cloth shall consist of a textile knit material of suitable construction (jersey, loop knit (twill), etc.), fiber composition (cotton, polyester, blend, etc.), and weight to meet the performance requirements listed in Table I. When specified in the contract or order, the base cloth shall be a loop knit (terry) polyester cloth weighing not less than 3.2 oz/sq yd (108 g/sq m) in a greige state. The coating compound (wear layer and expanded layer) shall be formulated from vinyl-chloride polymer or copolymer, plasticized and pigmented to meet the color specified (see 6.3).

The finished coated cloth shall be 53.5 inches (135.9 cm) wide, minimum; 0.045 inch (1.143 mm) thick, minimum; and shall weigh 20.3 oz/sq yd (678 g/sq m), minimum. Color and finish shall approximate standard samples available from the office issuing the purchase order or solicitation for offers. The coated cloth shall be furnished in 25 yard (22.9 m) minimum length rolls, with no more than two pieces per roll and a minimum piece length of 3 yards (2.7 m). Put-up shall be on full width rolls.

The finished coated cloth shall meet the performance requirements in Table I.

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

Distribution Statement A: Approved for  
public release; distribution is unlimited.

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Table I. Performance requirements.

Property	Requirement	Procedure
Breaking strength, Wale Course	60.0 pounds (267 N), minimum 60.0 pounds (267 N), minimum	ASTM D 751, Grab Method.
Tearing strength, Wale Course	10.0 pounds (44.5 N), minimum 10.0 pounds (44.5 N), minimum	ASTM D 1117, Trapezoid Tear
Surface abrasion resistance	No wear through to the vinyl foam after 500 cycles (double rubs)	ASTM D 4157, using abradant silicone-carbon cloth 240 grit
Adhesion of coating to fabric, Wale Course	6.0 lb (267 N), minimum, 2-in width 6.0 lb (267 N), minimum, 2-in width	ASTM D 751
Accelerated weathering resistance	No appreciable fading of the color, discoloration, exudation, development of tackiness, or stiffness after 120 hours. "Appreciable" means a change that is noticeable on first glance in comparing the tested specimens with the original sample.	ASTM D 4329
Hydrostatic resistance	50 lb/sq in (35.2 g/sq cm), minimum	ASTM D 751
Loss of plasticizer	10.0 percent, maximum	CFFA-18.
Cold resistance	The cloth shall not crack through to the base cloth at $-20 \pm 2$ degrees F. ( $-29 \pm 1$ degrees C.)	CFFA-6, Steel Roller Method
Flexing resistance	No separation of vinyl foam from vinyl wear layer or base cloth after 15,000 cycles.	ASTM D 2097
Stitch-tear resistance, Wale Course	25.0 pounds (111 N), minimum 20.0 pounds (89 N), minimum	ASTM D 751, Seam Strength
Blocking resistance	Slight blocking, maximum	ASTM D 751
Colorfastness to Crocking, Dry Wet	AATCC Gray Scale for Evaluating Color Change: 3.5, minimum 3.5, minimum	AATCC 8
Elongation, Wale Course	5.0 percent, minimum 25.0 percent, minimum	SAE J 855
Flame resistance, After flame Char length	2.0 seconds, maximum 3.0 inches, maximum	FED-STD-191 Methods 5830 and 5903
Mildew resistance	No fungal growth	ASTM G 21
Oil resistance	No indication that the oil has permeated the coated cloth.	CFFA-13

2.3 Label/markings. A label with markings indicating the manufacturer's name or trademark, product number, and run number shall be attached to each roll of the coated cloth.

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**2.4 Workmanship.** The coated cloth shall conform to the quality of product established by this commercial item description and shall function as a comfortable, durable, upholstery material appropriate for furniture. The finished cloth shall be flat, smooth, uniform, clean, and free from objectionable odor. The color and finish shall match the standard sample.

An allowance shall be made for any of the defects in the following paragraph, or the defect shall be removed from the roll. If a defect is 4.5 inches (11.4 cm) or less, it shall be marked and an allowance of 4.5 inches (11.4 cm) shall be added to the total length. If the defect is more than 4.5 inches (11.4 cm) but less than or equal to 27 inches (68.6 cm), the beginning and end of the defect shall be marked and an allowance equal to the full length of the defect shall be added to the total length of the roll. Defects greater than 27 inches (68.6 cm) shall be removed. There shall be no less than 5 yards (4.6 m) between defect markers. The maximum number of allowances for imperfections in one 25 yard (22.9 m) roll shall be two. If there is more than one piece in a 25 yard (22.9 m) roll, the number of pieces plus the number of allowances shall not exceed four.

Defects: any weight, width, length, or thickness less than the specified minimum, any uncoated area; any nonuniform coating; any separation of coating from expanded layer or of expanded layer from base cloth; any tacky coating; any cracked or checked coating; any blister or lump; any wrinkle or crease on coated surface; any nonuniform, mottled, blotched, or spotted color or finish; any cut, hole, tear, mend, coated surface scratch or abrasion, or other fabric defect visible on the coated surface; any curled, folded, doubled, or rolled selvage; any dimensional distortion or waviness when the coated cloth is laid out flat; or any soil, dirt, spot, or stain.

**2.5 Measurement system.** The values stated in inch-pound units are to be regarded as the standard. The metric values stated in parentheses are for information purposes only.

**2.6 Metric products.** Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, providing they fall within the tolerances specified and all other requirements of this document are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable.

**2.7 Commercial item.** The use of the term "commercial item" in this document does not imply that any item or items offered are not required to conform with all requirements specified herein.

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## 3. REGULATORY REQUIREMENTS

3.1 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).

## 4. QUALITY ASSURANCE PROVISIONS

4.1 General quality statement. The products provided shall 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 prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

## 5. PACKAGING

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

## 6. NOTES

6.1 Part Identification Number (PIN). Coated cloth conforming with this commercial item description shall be identified by a part number configuration consisting of identification of a portion of the commercial item description number and color. An example of a part numbering system is shown below. This part numbering system is intended for identification and cross-indexing of the item within the federal cataloging system. The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.

AA2950I

Example: (AA2950I) = Red

Color I	= red	VII	= brown
II	= rust	VIII	= gray
III	= green	VIX	= rose
IV	= light blue	X	= black
V	= dark blue	XI	= off-white
VI	= beige	XII	= bronze
Commercial item description number			

6.2 Referenced documents. The documents referenced in this commercial item description shall be the issues in effect on the date of issuance of the invitation for bids or request for proposals unless otherwise specified. These documents form a part of this commercial item description to the extent specified. In the event of a conflict between this commercial item description and a document referenced herein, this commercial item description shall take precedence.

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Copies of AATCC standards and test methods are available from American Association of Textile Colorists and Chemists, P.O. Box 12215, Research Triangle Park, NC 27709.

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

Copies of CFFA Standard Test Methods are available from Chemical Fabrics and Film Association, Inc., 1300 Sumner Avenue, Cleveland, Ohio 44115-2851.

Copies of Federal standards are available from the General Services Administration Specifications Section (3FBP-W), 470 E. L'Enfant Plaza, SW, Suite 8100, Washington, DC 20407.

Copies of SAE standards are available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096.

6.3 Ordering data. Purchaser should select the preferred options permitted herein and include the following information in procurement documents (if applicable).

- a) Title, number, and date of this commercial item description.
- b) Color required (see 2.1).
- c) The preservation, packing, and marking desired.

6.4 National stock numbers (NSNs). The following NSNs correspond to this CID. The list may not be indicative of all possible NSNs associated with the CID.

NSN	PART NUMBER	NSN	PART NUMBER
8305-00-242-1032	AA2950II	8305-00-702-2863	AA2950V
8305-00-286-5564	AA2950IV	8305-00-710-8535	AA2950XI
8305-00-286-5565	AA2950I	8305-00-722-9411	AA2950VI
8305-00-286-5566	AA2950VIX	8305-00-965-4693	AA2950X-4693
8305-00-286-5567	AA2950III	8305-01-022-3169	AA2950XII
8305-00-262-2764	AA2950VII	8305-01-037-1731	AA2950X-1731
8305-00-262-3290	AA2950VIII		

MILITARY INTERESTS:

PREPARING ACTIVITY:  
GSA-FSS

Custodians:  
Air Force: 99

Review Activities:  
Air Force: 45, 82