

NOT MEASUREMENT SENSITIVE

A-A-59298B
11 March 2013
SUPERSEDING
A-A-59298A
11 September 2000

COMMERCIAL ITEM DESCRIPTION

TAPE, PRESSURE-SENSITIVE ADHESIVE

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

1. **SCOPE.** This commercial item description (CID) covers the requirements for one type of pressure-sensitive tape to use as a separator to prevent galvanic attack between dissimilar metals.

2. SALIENT CHARACTERISTICS

2.1 **Material.** The adhesive material shall be pressure sensitive, water insoluble, homogenous, and coated in a smooth and evenly distributed layer on one side of the backing. The adhesive shall require no solvent, heat, or any other preparation prior to application.

2.2 **Breaking strength.** The tape shall have a breaking strength of 15 pounds per inch width minimum when tested in accordance with FED-STD-191, Method No. 5102.

2.3 **Adhesion.** Adhesion of the tape to magnesium shall be 20 ounces per inch width minimum. Adhesion after exposure to petroleum base oils and di-ester fluids shall be 14 ounces per inch width minimum with 0.125-inch edge lifting permitted.

2.4 **Finished tape.** The tape shall be smoothly and uniformly wound in rolls, with the adhesive side in, on cores having an inside diameter of 3.000, +0.0625, -0.0000-inch. The core shall be rigid enough to prevent distortion of the roll under normal handling. The tape shall be one continuous strip and contain no bare spots or lumps.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any other data which may improve this document should be sent to the Naval Air Systems Command (Commander, Naval Air Warfare Center Aircraft Division, Code 4L8000B120-3, Highway 547, Lakehurst, NJ 08733-5100) or by email to michael.sikora@navy.mil . Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at https://assist.dla.mil .
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2.4.1 Width, length, and thickness. Unless otherwise specified (see 5.2), the width of the tape shall be one inch. The length of the tape in the rolls shall be a minimum of 72 yards. Thickness of the tape shall be 0.004-inch maximum.

3. **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. PRODUCT CONFORMANCE

4.1 Product conformance. The tape provided shall meet the salient characteristics of this CID, conform to the manufacturer'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 Magnesium test panel. The panel shall be at least two inches wide by four inches long and 0.0625-inch thick conforming to AZ31B-H24 with chrome pickle treatment (SAE AMS-M-3171, Type I). The panel shall be cleaned with mineral spirits conforming to MIL-PRF-680, Type I.

4.3 Tape application. A tape specimen one by eight inches shall be applied to the test panel described in 4.2 so that a one- by four-inch area is covered. The tape shall be applied by rolling the tape applicator back and forth once in the lengthwise direction.

4.4 Adhesion to magnesium. The free end of the tape applied in accordance with 4.3 shall be doubled back 180 degrees, and one inch of the applied tape shall be peeled back at the folded end to allow panel attachment to a tensile test machine. The free end of the tape shall be pulled by the tensile machine at a rate of 12 inches per minute, and the adhesion value recorded after the first inch and then again after the next inch is peeled back.

4.4.1 Adhesion after immersion. Two more tape samples shall be applied in accordance with 4.3. Using two separate containers, fill one with SAE AMS3021 or MIL-PRF-7808 lubricating oil and the other with a petroleum based oil conforming to ASTM D471, IRM 903 such that the test panels will be completely submerged. Place the two containers in an oven maintained at 155 \pm 2° F for four hours. After this immersion period, the panels shall be removed and excess fluid blotted. The tape specimens shall then be subjected to the adhesion test of 4.4.

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

4.5.1 Manufacturer's experience. The company producing the pressure sensitive tape must have been manufacturing a product meeting the requirements of this CID for at least six months.

4.5.2 Conformance inspection. The company must have offered the tape to a government lab for inspection (see 6.3).

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5. PACKAGING

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

6. NOTES

6.1 Source of documents. Federal Government activities may obtain copies of FED-STD-191, MIL-PRF-680, MIL-PRF-7808, ASTM D471, SAE AMS3021, and SAE AMS-M-3171 from established distribution points within their agencies; Department of Defense activities may obtain these documents from the Standardization Documents Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. Other activities may obtain copies of FED-STD-191 and MIL-PRF-680 from the General Services Administration, Federal Supply Service, Specification Section, Suite 8100, 479 L'Enfant Plaza, SW, Washington, DC 20407.

6.1.1 ASTM documents. Other activities may order ASTM D471 from the American Society for Testing and Materials (ASTM) INTERNATIONAL, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 or www.astm.org.

6.1.2 SAE documents. Other activities may order SAE AMS-M-3171 and SAE AMS3021 from SAE INTERNATIONAL, 400 Commonwealth Drive, Warrendale, PA 15096-0001 or www.sae.org.

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

- a. CID document number and revision.
- b. Width if other than one inch (see 2.4.1).
- c. Length of tape in roll if other than 72 yards (see 2.4.1).
- d. Packaging, packing, and marking (see 5.1).

6.3 Government laboratory. Manufacturers wanting to have their tape inspected may do so by contacting Commander, Naval Air Systems Command, Code 4.3.4.2, 48066 Shaw Road, Unit 5, Building 2188, Materials Lab, Patuxent River, MD 20670-1908.

6.4 Changes from previous issue. The margins of this CID are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content regardless of the marginal notations and relationship to the last previous issue.

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6.5 Subject (key word) listing.

Dissimilar
Masking

CONCLUDING MATERIAL

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:
GSA-FAS-2FYI

Custodians:

Army - GL
Navy - AS
Air Force - 99

Preparing activity:
Navy – AS

Review activities:

Army - CR4, MI
Air Force - 11

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