

INCH-POUND

A-A-59258  
20 May 1998  
SUPERSEDING  
MIL T-47014(AR)  
19 April 1974

COMMERCIAL ITEM DESCRIPTION  
TAPE, ALUMINUM FOIL, HEAT REFLECTIVE,  
PRESSURE SENSITIVE ADHESIVE

The General Services Administration has authorized the use of this commercial item description as a replacement for MIL-T-47014 for all federal agencies.

1. SCOPE. This CID covers one type of heat reflective aluminum foil tape with pressure sensitive adhesive suitable for high temperature applications (see 6.1).

2. SALIENT CHARACTERISTICS.

2.1 Material. The tape shall consist of a dead soft reflective aluminum foil substrate, coated on the back with a pressure sensitive adhesive which withstands 500 degree Fahrenheit (260 degree Celsius) temperatures, in roll form wound on a core.

2.2 Performance characteristics.

2.2.1 Tensile strength. The tensile strength of the tape shall not be less than 14 pounds per inch of width (245 Newton's per 100 millimeters of width) when tested in accordance with ASTM-D3759.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, US Army TACOM-ARDEC, Attn.: AMSTA-AR-EDE-S, Bldg. 12, Picatinny Arsenal, NJ 07806-5000 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 8030

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2.2.2 Peel adhesion. When applied to a standard steel surface the tape shall have a peel adhesion of not less than 15 ounces per inch of width (16 Newton's per 100 millimeters of width) when tested in accordance with ASTM-D3330. When applied to a standard steel surface and exposed to a temperature of not less than 500 degrees Fahrenheit (260 degrees Celsius) for not less than 60 hours and returned to room temperature, the tape shall have a peel adhesion of not less than 10 ounces per inch of width (11 Newton's per 100 millimeters of width) when tested in accordance with ASTM-D3330.

2.2.3 Shelf life. The shelf life of the tape shall not be less than 12 months from the date of manufacture when stored in the manufacturer's packaging at a temperature no higher than 80 degrees Fahrenheit (27 degrees Celsius) and no more than 50% relative humidity.

## 2.3 Physical Properties.

### 2.3.1 Dimensions.

2.3.1.1 Thickness. The aluminum foil shall be  $0.002 \pm 0.001$  inch ( $0.051 \pm 0.025$  millimeter) thick and the total tape thickness shall be  $0.004 \pm 0.001$  inch ( $0.102 \pm 0.025$  millimeter) when tested in accordance with ASTM-D3652.

2.3.1.2 Width and length. The tolerance on the width shall be  $\pm 1/32$  inch ( $\pm 0.8$  millimeter) and the average roll length in any order shall not be less than the specified amount. The length and width shall be as specified in the contract or order (see 6.2).

2.3.1.3 Diameter. The tape shall be wound on standard 3 inch inside diameter cores.

2.3.2 Surface finish. The foil surface shall be shiny and reflective, either dry annealed or slick annealed.

2.3.3 Workmanship. The tape shall be free of dirt, foreign material, or other contaminants. The tape rolls shall be cleanly slit and evenly wound.

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. QUALITY ASSURANCE PROVISIONS.

4.1 Product Conformance. The products provided shall meet the salient characteristics of this commercial item description, 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.

4.2 Market acceptability. The market acceptability criteria shall be as specified in the contract or order (see 6.2).

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

## 6. NOTES

6.1 Intended use. The tape is intended for use as a heat reflective shield capable of withstanding sustained exposure up to 500 degrees Fahrenheit (260 degrees Celsius) and surviving temporary exposure up to 1000 degrees Fahrenheit (538 degrees Celsius).

6.2 Ordering data. Procurement documents should specify the following:

- a. Title, number and date of this commercial item description.
- b. Issue of Department of Defense Index of Standards and Specifications (DODISS) to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 6.3).
- c. Width and length required (see 2.3.1.2).
- d. Market acceptability criteria, if required (see 4.2).
- e. Packaging and marking requirements (see 5).

6.3 Sources of documents.

6.3.1 The Code of Federal Regulations (CFR) is available by mail order from the Superintendent of Documents, ATTN: New Order, PO Box 371954, Pittsburgh, PA 15250-7954.

6.3.2 ASTM standards and test methods are available from The American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

6.4 Material Safety Data Sheets. Products meeting the requirements of this CID may be subject to the requirements of 29 CFR 1910.1200 and FED-STD-313 for Material Safety Data Sheets.

MILITARY INTERESTS:

Custodian:  
Army-AR

Review Activity:  
Army-MR

CIVILIAN AGENCY COORDINATING ACTIVITY:  
GSA-FSS

Preparing Activity:  
Army-AR

(Project 8030-0761)

# STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

## INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

### I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER

A-A-59258

2. DOCUMENT DATE (YYMMDD)

980520

3. DOCUMENT TITLE **TAPE, ALUMINUM FOIL, HEAT REFLECTIVE, PRESSURE SENSITIVE ADHESIVE**

4. NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)*

5. REASON FOR RECOMMENDATION

### 6. SUBMITTER

a. NAME *(Last, First, Middle Initial)*

b. ORGANIZATION

c. ADDRESS *(Include Zip Code)*

d. TELEPHONE *(Include Area Code)*

(1) Commercial

(2) AUTOVON  
*(if applicable)*

7. DATE SUBMITTED  
(YYMMDD)

### 8. PREPARING ACTIVITY

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c. ADDRESS *(Include Zip Code)* Commander

US Army TACOM-ARDEC  
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Picatinny Arsenal, NJ 07806-5000

**IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:**

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