

MIL-M-81807A{AS}

22 February 1971  
Superseding  
MIL-M-8180(AS)  
21 December 1970

MILITARY SPECIFICATION

Marking of Aircraft Ground Support Equipment and Other Flight Line  
Vehicles with Retro-Reflective Materials; process for

This specification has been approved by the  
Naval Air Systems Command, Department of the  
Navy

1. SCOPE

1.1 This specification prescribes general requirements for the marking of aircraft ground support equipment and other vehicles (i.e., runway sweepers, firetrucks, refuelers, etc.) , used on or near the flight line area with retro-reflective materials.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of invitation for bid or request for proposal, form a part of this specification to the extent specified herein.

SPECIFICATIONS

FEDERAL

L-S-300	Sheeting and Tape, Reflective: Non-exposed Lens, Adhesive Backing
TT-C-001060	Coating, Mixture, Reflective Liquid
TT-V-109	Varnish, Spar, Alkyd-resin

(When requesting applicable documents, refer to both title and number. Copies of unclassified documents may be obtained from the Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120).

FSC-1730

### 3. REQUIREMENTS

3.1 General. When specified in contracts, orders, specifications or drawings, aircraft support equipment and other flight line vehicles shall be marked with reflective tape conforming to L-S-30, Type II, Class 3, Reflectivity No. 1, Color g, Width 2 inches. The tape shall be applied along the extreme perimeter of the equipment to reflect its general outlining configuration, when operating under reduced lighting conditions. When possible, the tape shall be applied to delineate the entire perimeter of the equipment. However, equipment having perimeter surfaces containing compound curves at the corners or large rivets, nuts, bolts, etc. need not be marked in these particular areas provided the marking provides a general outline of the equipment. Application of the reflective material shall not obliterate other markings (i.e., caution, capacity, danger, name plates, servicing/safety instructions, product marking, etc.). Wheel chocks, tie downs and other small equipment whose configuration does not readily lend itself to the application of reflective tape shall be marked with 2 inch circular stripes of reflective paint (i.e., wheel chocks shall be marked around the middle and each exposed end). The paint shall conform to the requirements of Specification TT-C-001060, Color No. 7211.

#### 3.2 Marking Procedures:

3.2.1 Surface Preparation: The surface to which the tape or paint will be applied shall be cleaned of all loose scale and dirt; all deposits of cleaning compounds shall be removed. The surface shall be thoroughly dried.

3.2.2 Application: Apply in accordance with the manufacturer's instructions. Insure that all air bubbles are removed when tape is applied. Do not apply at temperatures below 50°f. NOTE: Do not oven bake equipment after the reflective material has been applied.

3.2.3 Sealer: Sealing compound conforming to TT-V-109 shall be applied to the edges of the tape in the form of a fillet to protect the tape.

3.3 Workmanship: The reflective material shall not be haphazardly applied and shall be free from ragged edges, voids, cracks, scales, air bubbles, blisters or dirt.

4. QUALITY ASSURANCE PROVISIONS

4.1 Inspection: Equipment shall be thoroughly inspected to determine compliance with all requirements specified in paragraph 3.

4.2 Tests: After equipment has been subjected to all tests specified in the equipment specification, the reflective marking shall be subjected to the adhesion test specification specified in paragraph 4.4.9.5 of L-S-300.

5. Preparation for Delivery: N/A

6. Notes.

6.1 Intended Use: To provide improved visibility of flight line support equipment and vehicles under reduced lighting conditions.

Project No. 1730-N 142



SPECIFICATION

S SHEET

Form Approved  
Budget Bureau No. 119-HC

## INSTRUCTIONS

This sheet is to be filled out by personnel either Government or contractor, involved in the use of a specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided containing information on the use of this specification which will insure that suitable products can be procured in minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Place lines on reverse side, staple in corner, and send to preparing activity (as indicated on reverse hereof).

## SPECIFICATION

MIL-M-87807A(AS) MARKING OF AIRCRAFT GROUND SUPPORT EQUIPMENT AND OTHER FLIGHT

ORGANIZATION (of activity) : INTRINSIC DEFENSIVE MATERIALS, PROCEEDING NO. CITY AND STATE

CONTRACT NO.

QUANTITY OF ITEMS PROCURED

DOLLAR AMOUNT

\$

## MATERIAL PROCURED UNDER A

 DIRECT GOVERNMENT CONTRACT SUBCONTRACT

1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT UNDER A. GIVE PARAGRAPH NUMBER AND WORDING.

B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES.

2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID

3. IS THE SPECIFICATION RESTRICTIVE?

 YES NO IF "YES", IN WHAT WAY?

4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)

SUBMITTED BY (Printed or typed name and activity)

DATE

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Naval Air Systems Command  
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