

TECHNICAL MANUAL

CONTROL AND USE OF INSULATING
MATTING FOR HIGH-VOLTAGE APPLICATION

(ATOS)

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1. PURPOSE.

This technical manual provides information and instructions for the control and use of insulating matting meeting Specification MIL-M-15562 and AFOSH 91-50.

2. RESPONSIBILITY.

a. The Ground Safety officer shall perform certification requirements prescribed in paragraph 5.

b. Appropriate organizational Commander shall assure compliance with use restrictions and replacement requirements outlined in paragraphs 6, 7 and 8.

3. APPLICABILITY.

This technical manual applies to all Air Force activities and contractors if obtaining insulating matting as Government Furnished Equipment.

4. DEFINITIONS.

a. The definitions of "shall", "will", "should", and "may", contained in Specification MIL-M-38784, shall be applicable to use of these items in this technical manual.

b. Insulating Matting - As used in this technical manual is rubber matting manufactured to withstand a maximum of 3000 volts of electricity to ground.

c. High Voltage - As used in this technical manual applies to voltage of 600 to 3000 volts.

5. CERTIFICATION.

a. The Ground Safety Officer shall inspect areas where insulating matting is required. The Ground Safety Officer will determine if insulating is required and approve or disapprove the requisitions. The results of this inspection will be filed in the work center having maintenance responsibility for the inspected area.

b. It is not necessary for the Ground Safety Officer to justify use on insulating matting. His stamp of approval is all that is required to requisition material.

6. USE.

a. Insulating matting shall be used for personnel protection in areas where personnel are subject to high voltage. Typical examples of areas where insulating matting is required are:

- (1) High voltage consoles.
- (2) Motors.
- (3) Repair and test benches (electrical).
- (4) Equipment and control panels.



Insulating matting is for protection against accidental shock only. This matting shall not be depended upon for protection when handling hot wires and circuits.

b. Generally, only one run or strip of insulating matting shall be used on floor around high voltage areas. This run shall continue past the area or equipment for 24 inches. If more than one run or strip of matting is required, the Ground Safety Officer will determine the amount required.

NOTE

If equipment is spaced no more than 66 inches apart, it is permissible to make a continuous run of the insulating matting, terminating 24 inches

past each end of the high voltage equipment.

c. Cleaning - Cleaning will be accomplished as often as necessary to prevent contamination such as dirt strains, oil and grease utilizing domestic cleaners such as carpet cleaner or any other cleaner (approved by local authority) required for special or unusual contaminant.

7. RESTRICTIONS.

Insulating matting shall not be used for non-skid applications, such as walkways, hall runners, in front of work benches (non-electrical) or on work and test benches, etc. For these applications general purpose matting shall be used. This matting is a low cost matting and is satisfactory for use in areas where shock protection is not required. No certification for use of general purpose matting is required.

8. REPLACEMENT.

a. Insulating matting shall be replaced when worn to one-half original thickness.

b. Embedded metallic chips and deterioration caused by oil or ultraviolet rays will affect the safety of the insulating matting.

NOTE

Shoes with nails should not be worn on insulating matting.

c. If in doubt about the safety of the insulating matting, the Ground Safety Officer should be asked to inspect the insulating matting to determine if it should be replaced.

d. Insulating matting that is removed because of unsafe conditions may be used any place or any way approved by local offices.

THE END