

MIL-P-15037E  
AMENDMENT-3  
14 October 1975  
SUPERSEDING  
Amendment-2  
10 August 1971

MILITARY SPECIFICATION

PLASTIC SHEET, LAMINATED, THERMOSETTING, GLASS-CLOTH  
MELAMINE-RESIN

This amendment forms a part of Military Specification MIL-P-15037E, 2 December 1965, and is mandatory for use by all Departments and Agencies of the Department of Defense.

Page 2

2.2, Add the following ASTM Standard:

"ASTM D 2304 - Test for Thermal Evaluation of Rigid Electrical Insulating Material"

2.2, United States Testing Company Report of Test #83413: Delete the entire listing and substitute the following:

"Defense Documentation Center  
Report No. AD 297457

(Application for copies should be addressed to Defense Documentation Center, Cameron Station, Alexandria, Virginia 22314.)"

2.2, Add the following:

"NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEMA PUBLICATION LI 1  
Industrial Laminated Thermosetting Products

(Application for copies should be addressed to National Electrical Manufacturers Association, 155 East 44th Street, New York, NY 10017.)"

2.2, delete "OFFICIAL CLASSIFICATION COMMITTEE" reference in its entirety and substitute:

"UNIFORM CLASSIFICATION COMMITTEE  
Uniform Freight Classification Rules

(Application for copies should be addressed to the Uniform Classification Committee, 202 Union Station, 516 West Jackson Boulevard, Chicago, Illinois 60606.)"

3.1, delete and substitute:

"3.1 Qualification. Glass cloth, melamine-resin thermosetting sheets furnished under this specification shall be products which are qualified for listing on the applicable qualified products list at the time set for opening of bids (see 4.2 and 6.3)."

THE MARGINS OF THIS SPECIFICATION ARE MARKED "+" TO INDICATE WHERE CHANGES (ADDITIONS, MODIFICATIONS, CORRECTIONS, DELETIONS) FROM THE PREVIOUS ISSUE HAVE BEEN 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 IRRESPECTIVE OF THE MARGINAL NOTATIONS AND RELATIONSHIP TO THE LAST PREVIOUS ISSUE.

PSC 9330

MIL-P-15037E  
AMENDMENT-3

Page 4

3.5, delete: "The manufacturer shall furnish instructions for machining of the material."

3.7, line 4: Delete "bureau" and substitute "command".

4.1, delete and substitute:

"4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements."

4.2, Delete and substitute:

"4.2 Qualification tests. Qualification tests shall be conducted at a laboratory satisfactory to the Naval Ship Engineering Center. Qualification tests shall consist of the tests specified in table IV. Application for Qualification tests shall be made in accordance with "Provisions Governing Qualification SD-6" (see 6.3 and 6.4)."

Page 6

4.3, line 5: Delete "except where otherwise indicated" and substitute "Inspection level S-1 AQL 4.0".

4.3.1, delete.

Page 10

4.5.2, line 3: Delete "Bureau of Ships" and substitute "Naval Ship Engineering Center".

4.5.3, lines 2 and 7: Delete "Bureau of Ships" and substitute "Naval Ship Engineering Center".

Page 17

4.7.12, first sentence: Delete and substitute: "The method described in Defense Documentation Center Report No. AD 297457 shall be used."

Below "5. PREPARATION FOR DELIVERY", add the following:

(The preparation for delivery requirements specified herein apply only for direct Government procurements. For the extent of applicability of the preparation for delivery requirements of referenced documents listed in section 2, see 6.8.)

Page 18

6.1, delete and substitute:

"6.1 Intended use. The laminated glass cloth, melamine resin sheet covered by this specification is a flame and arc resistant, rigid plastic laminate designed for mechanical support in electrical equipment applications up to 130°C. The laminate should not be applied in application where the continuous electric stress exceeds 50 volts per mil of thickness. Type GME is equivalent to grade G9 laminates of NEMA specification LI 1."

Add new paragraph 6.1.1 as follows:

"6.1.1 Temperature index. Temperature index is a number indicating the thermal rating of a material when evaluated by an accelerated thermal aging method and then compared to another material having known temperature characteristics by the same method. Type GME laminates have a temperature index of 130 when evaluated per ASTM D 2304 and using flexural strength as a criterion. An end point of 50 percent decrease in flexural strength and an extrapolated life of 40,000 hours was used. NEMA grade LE cotton-phenolic laminates under the same test conditions yield a temperature index of 105."

Page 2 of 3

MIL-P-15037E  
AMENDMENT-3

6.3 and 6.4, delete and substitute:

"6.3 With respect to products requiring qualification, awards will be made only for products which are at the time set for opening of bids, qualified for inclusion in applicable Qualified Products List QPL 15037 whether or not such products have actually been so listed by that date. The attention of the suppliers is called to this requirement, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or orders for the products covered by this specification. The activity responsible for the Qualified Products List is the Naval Ship Engineering Center, Prince George's Center, Center Building, Hyattsville, Maryland 20782, and information pertaining to qualification of products may be obtained from that activity. Application for Qualification tests shall be made in accordance with "Provisions Governing Qualification SD-6" (see 6.4).

"6.4 Copies of "Provisions Governing Qualification SD-6" may be obtained upon application to Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120."

6.6, delete and substitute:

"6.6 International interest. Certain provisions of this specification are the subject of international standardization agreement ABC-NAVY-STD-17. When amendment, revision or cancellation of this specification is proposed which will affect or violate the international agreement concerned, the preparing activity will take appropriate reconciliation action through international standardization channels including departmental standardization offices, if required."

Add the following new paragraph as 6.8:

"6.8 Sub-contracted material and parts. The preparation for delivery requirements of referenced documents listed in Section 2 do not apply when material and parts are procured by the supplier for incorporation into the equipment and lose their separate identity when the equipment is shipped."

Custodians:

Army - EL  
Navy - SH  
Air Force - 11

Preparing activity:

Navy - SH  
(Project 5970-0423)

Review Activities:

Army - EL  
Navy - SH, EC  
Air Force - 11

User Activities:

Army - MU, MI, ME  
Navy - AS

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