

MIL-L-19537C  
AMENDMENT 3  
28 October 1977  
SUPERSEDING  
AMENDMENT 2  
23 February 1968

## MILITARY SPECIFICATION

LACQUER: ACRYLIC-NITROCELLULOSE GLOSS (FOR AIRCRAFT USE)

This amendment forms a part of Military Specification MIL-L-19537C dated 15 May 1965 and is approved for use by all Departments and Agencies of the Department of Defense.

Page 5

Table I: Change Note 1/ to read: For gloss black, insignia blue, insignia red, glossy sea blue and olive drab, nonvolatile shall be 32 percent minimum, volatile 68 percent maximum."

\* 1/

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Table III: Under "Weight per gallon (pounds)" add "Olive drab 7.8 minimum."

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4.6.12: Add the following: Note: di-2 ethyl-hexyl sebacate may be obtained as Rohm and Haas "Plexol 201".

Page 1

Add new paragraph:

"1.1.1 Non-photochemically reactive lacquer - This amendment contains requirements for a material employing non-photochemically reactive solvents which meet all requirements of the specification except as modified herein. The material is intended for use where Air Pollution Regulations are in effect."

Page 4

3.4.1: Change "(40 percent solution in toluene)" to read "(40 percent solution in toluene, for identification purposes only)."

3.4.4: Delete and substitute:

1/ Changes to page 6 in Amendment 2 have been deleted.

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"3.4.4 Volatile content - The volatile content of the admixed and thinned coating shall consist of a non-photochemically reactive solvent blend. A non-photochemically reactive solvent is any solvent with an aggregate of less than 20 percent of its total volume composed of the chemical compounds classified below or which does not exceed any of the following individual percentage composition limitations, referred to the total volume of solvent:

- (a) A combination of hydrocarbons, alcohols, aldehydes, esters, ethers or ketones having an olefinic or cycloolefinic type of unsaturation: 5 percent;
- (b) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene: 8 percent;
- (c) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene or toluene: 20 percent."

Add new paragraph:

"3.4.4.1 Thinner - The thinner to be used with the non-photochemically reactive lacquer shall be non-photochemically reactive as defined in 3.4.4 and shall be compatible with the lacquer."

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Table I: Under "Volatile portion" delete "Total ketones," "Medium Boiling," "Total alcohol" and "Toluene" along with their respective values and insert "see 3.4.4."

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4.3 Add the following:

"Whenever undercoating with lacquer primer is specified, see 4.3.1, the primer shall be formulated in accordance with MIL-P-7962 for non-photochemically reactive primer to comply with Air Pollution Regulations. Lacquer under test shall be thinned with material as specified in 3.4.4.1. Control panels for comparative tests shall be prepared as specified in unamended paragraphs."

4.3.2: Delete last sentence with table and substitute: "Thinning for spray application shall be accomplished in reducing the lacquer with an equal volume of thinner specified in 3.4.4.1."

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Add new paragraph:

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\* "4.4.1.2 Weather resistance. The manufacturer shall submit a notarized certification signed by a responsible official of its management, attesting that the resin combination of the lacquer being furnished, has met the Florida exposure weather resistance test (4.6.15) when formulated in a gloss color."

Add new paragraph:

\* "4.4.1.3 Storage stability. The manufacturer shall submit a notarized certification signed by a responsible official of its management, attesting to the effect that the acrylic-nitrocellulose lacquer will meet all the requirements of this specification after storage as specified in 3.5.2 for a period of one year."

Page 15

Add new paragraph:

"4.6.1.1 Non-photochemically reactive solvents - The non-photochemically reactive volatile composition shall be determined using a gas chromatograph or other suitable device in accordance with Method ASTM-D-2267."

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5.3: Add "NON-PHOTOCHEMICALLY REACTIVE" after title of lacquer. Change "MIL-T-19544" to read "manufacturer's instructions."

Page 19

Add new paragraph:

"6.1.1 Non-photochemically reactive lacquer is intended to be used only over a system of MIL-C-8514 wash primer and non-photochemically reactive lacquer type primer MIL-P-7962."

Add new paragraph:

"6.4 The solvent for the resins shall be such that the final lacquer formulation will have a solvent content which is non-photochemically reactive."

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment 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 irrespective of the marginal notations and relationship to the last previous amendment.

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Custodians:  
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Navy - AS  
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Preparing activity:  
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