

MIL-STD-708(NORD)  
24 March 1959  
SUPERSEDING  
NAVORD OS 8587,  
8588, and 8589  
4 April 1958

MILITARY STANDARD  
FORMULA FOR BINDER SOLUTION



MIL-STD-708(NORD)  
24 March 1959

DEPARTMENT OF THE NAVY

BUREAU OF ORDNANCE

WASHINGTON 25, D. C.

Formula for Binder Solution

MIL-STD-708(NORD)

1. This standard has been approved by Bureau of Ordnance, and is published to provide a formula for binder solution used in illuminant compositions.

2. Use of this standard by activities under cognizance of the Bureau of Ordnance shall be mandatory effective on date of issue.

3. Recommended corrections, additions, or deletions should be addressed to the Chief of the Bureau of Ordnance, Department of the Navy, Washington 25, D.C.

# MIL-STD-708 (NORD)

24 March 1959

Superseding NAVORD OS 8587, 8588, and  
 8589 4 April 1958

## MILITARY STANDARD

### FORMULA FOR BINDER SOLUTION

| CLASS | INGREDIENT        | RESIN          | CATALYST      | DRIER               |
|-------|-------------------|----------------|---------------|---------------------|
|       | Specification     | See Note 1     | See Note 2    | TT-D-643<br>Type II |
| 1     | Percent by Weight | 98.5 $\pm$ 0.1 | 1.5 $\pm$ 0.1 | - - - -             |
| 2     | Percent by Weight | 98.0 $\pm$ 0.1 | 1.5 $\pm$ 0.1 | 0.5 $\pm$ 0.1       |
| 3     | Percent by Weight | 99.0 $\pm$ 0.1 | 1.0 $\pm$ 0.1 | - - - -             |

Blend the binder solution thoroughly prior to use.

**CAUTION:** FOR SAFETY REASONS, DO NOT ALLOW THE PURE CATALYST TO COME IN CONTACT WITH THE DRIER CONCENTRATE.

#### NOTES:

1. Laminac 4110 procured from the American Cyanamide Company has been found suitable. Other materials must be demonstrated to be satisfactory for the purpose intended.
2. The catalyst which is a 60% solution of methyl ethyl ketone peroxide in dimethylphthalate procured as Lupersol DDM from the Lucidol Div. of Wallace and Tiernan, Inc. has been found suitable. Other catalysts must be demonstrated to be satisfactory for the purpose intended.
3. The specific gravity of the catalyst is 1.12 @ 15°C. This value may be used for volumetric measurement of this material.
4. The bulk laminac should be stored at 50°  $\pm$  5°F.
5. The addition of the catalyst to the laminac initiates the polymerisation reaction. Therefore, the mixture should be prepared in the required quantity, immediately prior to use.
6. Mixing procedure: Mix the catalyst with the resin thoroughly prior to the addition of the drier.
7. See section 6.7 of MIL-P-21355 (NORD) for general safety precautions.
8. Class 1 supersedes NAVORD OS 8587. Class 2 supersedes NAVORD OS 8588. Class 3 supersedes NAVORD OS 8589.

Copies of specifications, standards, drawings and publications required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.

NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may be in any way related thereto. Referenced documents shall be the same in effect on date of invitation for bids.

## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

OMB Approval  
No. 22-R255

**INSTRUCTIONS:** The purpose of this form is to solicit beneficial comments which will help achieve procurement of suitable products at reasonable cost and minimum delay, or will otherwise enhance use of the document. DoD contractors, government activities, or manufacturers/vendors who are prospective suppliers of the product are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. 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. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity.

## DOCUMENT IDENTIFIER AND TITLE

NAME OF ORGANIZATION AND ADDRESS

**CONTRACT NUMBER**

**MATERIAL PROCURED UNDER A**

☐ DIRECT GOVERNMENT CONTRACT    ☐ SUBCONTRACT

1. HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?

**A. GIVE PARAGRAPH NUMBER AND WORDING.**

#### B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

2. COMMENTS ON ANY DOCUMENT REQUIREMENT CONSIDERED TOO RIGID

**3. IS THE DOCUMENT RESTRICTIVE?**

☐ YES      ☐ NO (If "Yes", in what way?)

4. REMARKS

SUBMITTED BY (Printed or typed name and address - Optional)

TELEPHONE NO.

DATE \_\_\_\_\_

1 JAN 72

REPLACES EDITION OF 1 JAN 66 WHICH MAY BE USED

**S/N 0102-014-1802**