

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

MILITARY STANDARD
FORMULA FOR BINDER SOLUTION



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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.

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CLASS	INGREDIENT	RESIN	CATALYST	DRIER
	Specification	See Note 1	See Note 2	TT-D-643 Type II
1	Percent by Weight	98.5 ± 0.1	1.5 ± 0.1	- - - -
2	Percent by Weight	98.0 ± 0.1	1.5 ± 0.1	0.5 ± 0.1
3	Percent by Weight	99.0 ± 0.1	1.0 ± 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 $1.12 \pm 15^{\circ}\text{C}$. This value may be used for volumetric measurement of this material.
4. The bulk laminac should be stored at $50^{\circ} \pm 5^{\circ}\text{F}$.
5. The addition of the catalyst to the laminac initiates the polymerization 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.

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1 JAN 72

REPLACES EDITION OF 1 JAN 66 WHICH MAY BE USED

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