

**NEMA Standards Publication No. RE 2-1999**

*Electrical Insulating Varnish*

*Published by*

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## FOREWORD

This Standards Publication is intended to assist those responsible for the design of new and the repair of existing electrical equipment. This Standards Publication was developed by the Electrical Insulating Resins Section of the National Electrical Manufacturers Association. In the preparation of this Standards Publication input of users and other interested parties has been sought and evaluated. Inquiries, comments, and proposed or recommended revisions should be submitted to the concerned NEMA product subdivision by contacting the:

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At the time it was approved, the Section was composed of the following members:

Amoco Polymers, Inc.—Alpharetta, GA  
Bentley-Harris Manufacturing Co.—Exton, PA  
EI Dupont De Nemours & Company—Wilmington, DE  
Insulating Materials, Inc.—Schenectady, NY  
John C. Dolph Co.—Monmouth Junction, NJ  
Lectromat, Inc.—Mars, PA  
Ranbar Electrical Materials, Inc.—Manor, PA  
Schenectady Chemicals, Inc.—Schenectady, NY  
The P.D. George Company—St Louis, MO

## **SCOPE**

This Standards Publication is intended to present in concise and convenient form all standards for electrical insulating varnishes.

This Standards Publication includes definitions, instructions, and methods for determining the mechanical, thermal, and electrical performance characteristics of electrical insulating varnishes and specifications.

The intent of this standard is to supersede MIL-I-24092S. See Table ii-a for cross-reference to mil-spec classifications.

**Table ii-a**  
**MILITARY-NEMA RE-2 CROSS REFERENCE**

<b>MILITARY SPECIFICATION</b>	<b>MILITARY DESCRIPTION</b>	<b>MILITARY TYPE</b>	<b>NEMA SPECIFICATION</b>	<b>NEMA TYPE</b>
MIL-I-24092/1	SOLVENT CONTAINING - AIR DRY	CA	EV-130, EV-155	DA
MIL-I-24092/2	SOLVENT CONTAINING - BAKING-FLEXIBLE	CB	EV-130, EV-155, EV-180	DO
MIL-I-24092/3	SOLVENT CONTAINING - BAKING - SEMI-RIGID	CBH	EV-130, EV-155, EV-180, EV-200	DO
MIL-I-24092/4	SOLVENT CONTAINING - BAKING-SILICONE	CBS	EV-180, EV-200, EV-220	DS
MIL-I-24092/5	SOLVENTLESS - BAKING - FLEXIBLE	SF	EV-130, EV-155, EV-180	DM
MIL-I-24092/6	SOLVENTLESS - THIXOTROPIC-BAKING-FLEXIBLE	SFT	EV-130, EV-155, EV-180	DT
MIL-I-24092/7	SOLVENTLESS - BAKING - RIGID	SH	EV-155, EV-180, EV-200	DM
MIL-I-24092/8	SOLVENTLESS - THIXOTROPIC - BAKING - RIGID	SHT	EV-155, EV-180, EV-200	DT
MIL-I-24092/9	SOLVENTLESS - SILICONE - BAKING	SS	EV-180, EV-200, EV-220	DT
MIL-I-24092/10	WATER CONTAINING - BAKING - FLEXIBLE	WB	EV-130, EV-155, EV-180, EV-200	DW
MIL-I-24092/11	WATER CONTAINING - BAKING - RIGID	WB	EV-130, EV-155, EV-180, EV-200	DW
MIL-I-24092/12	SOLVENTLESS - PATCHING AND REPAIR	PK	SEE MIL-I-16923	
MIL-I-24092/13	FUNGUS RESISTANT		SEE MIL-V-173C	