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Electrical Insulating Varnish

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Secretariat

National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Rosslyn, Virginia 22209

www.nema.org

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Foreword

This standards publication is intended to assist those responsible for the design of new electrical equipment and the repair of existing electrical equipment. It 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.

Comments and suggestions for the improvement of this document are encouraged. They should be sent to:

Senior Technical Director, Operations
National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Rosslyn, Virginia 22209

This standard was developed by the NEMA 6IM Section, which is composed of the following members:

First Name	Last Name	Organization
Dave	Allen	Iten Industries
James	Azzarello	Röchling Industrial Cleveland
Solomon	Chiang	The Gund Company, Inc.
Max	Egan	Accurate Plastics
Sushil	Keswani	IDEAL Industries, Inc.
David	Stankes	3M
Stephen	Tuckwell	ELANTAS PDG, INC.
Roger	Wicks	DuPont

This standard was reviewed and approved by the NEMA Insulating Material Section standard consensus body and composed of the following voting members:

First Name	Last Name	Organization	Voting Status
Robert	Brown	Röchling Industrial Cleveland	Voting
Solomon	Chiang	The Gund Company, Inc.	Voting
Mike	Moran	The Gund Company, Inc.	Alt. Voting
David	Stankes	3M	Voting
Roger	Wicks	DuPont	Voting
Evanne	Wang	DuPont	Alt. Voting
Mark	Winkeler	ELANTAS PDG, INC.	Voting
Stephen	Tuckwell	ELANTAS PDG, INC.	Alt. Voting
Max	Egan	Accurate Plastics	Observer
Nicholas	Colapietro	UL Solutions	Voting
Nancy	Frost	Frosty's Zap Lab, LLC	Voting
Edward	Van Vooren	ELTEK International Laboratories	Voting
Jennifer	Palmer	ELTEK International Laboratories	Alt. Voting
Edwin	Marquez	Southwire Company	Voting
Kevin	Wahl	Southwire Company	Alt. Voting
Lisa	Murray	Nidec Motor Corporation	Voting
Jaron	Robison	ABB Inc.	Voting
Markus	Takala	ABB	Observer
Joseph	Tedesco	Hitachi Energy USA Inc.	Voting
Alan	Yerges	Eaton	Observer

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1 Scope

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

It 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-24092D. See Table 1-1 for cross-reference to mil-spec classifications.

Table 1-1—Military-NEMA IM 60003-2023 Cross-reference

Military Specification	Military Description	Military Type	NEMA Specification	NEMA TYPE
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			

1.1 References

The following standards (normative references) contain provisions that, through reference in this text, constitute provisions of NEMA RE 2. Additional documents and standards (other references) are referenced that might provide a more complete understanding. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on NEMA IM 60003-2023 are encouraged to investigate the possibilities of applying the most recent editions of the standards indicated.