NEMA Standards Publication

ANSI/NEMA C29.17-2002

American National Standard for Insulators - Composite - Line Post Type

National Electrical Manufacturers Association

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ANSI C29.17-2002

American National Standard

For Insulators—Composite-Line Post Type

Secretariat:

National Electrical Manufacturers Association

Approved February 12, 2002

American National Standards Institute, Inc.

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Published by

National Electrical Manufacturers Association
1300 North 17th Street, Rosslyn, VA 22209

Printed in the United States of America

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Foreword (This Foreword is not part of American National Standard C29.17-2002.)

This first edition of this standard was based on a NEMA proposed standards publication for composite line post insulators used on overhead transmission lines. It was developed at the request of American National Standards Committee on Insulators for Electric Power Lines, ASC C-29.

This standard was processed and approved for submittal to ANSI by ASC C-29. Committee approval of the standard does not necessarily imply that all committee members voted for approval. At the time it approved this standard, the ASC C-29 Committee had the following members:

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AMERICAN NATIONAL STANDARD **ANSI C29.17-2002**

For Insulators—
Composite-Line Post Type

1 Scope

This standard describes the qualification test procedures for composite line post insulators that are made of a fiberglass-reinforced resin matrix core, elastomeric weathersheds and metal end fittings. The insulators are intended for use on overhead lines in electric power systems, 70kV and above. Mechanical and electrical performance levels specified in this standard are applicable to new insulators.

2 Normative standards

2.1 Reference to American National Standards

When the following standards referred to in this document are superseded by a revision approved by the governing body, that revision shall apply.

American National Standard Test Methods for Electrical Power Insulators, ANSI C29.1-1996

American National Standard for Composite Suspension Insulators for Overhead Transmission Lines – Tests, ANSI C29.11-1996

2.2 References to other standards

IEEE Standard Techniques for High-Voltage Testing, IEEE Std. 4-1995

IEEE Dictionary of Electrical and Electronic Terms, IEEE Std. 100-1984

ASTM Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware, ASTM A153-1995

ASTM Test Method for Rubber Property – Durometer Hardness, ASTM D2240-95

ASTM Practice for Operating Light – Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials, ASTM G26-95

ASTM Practice for Operating Xenon Arc-Type Light-Exposure Apparatus With and Without Water for Exposure of Plastics, ASTM D2565-92a

ASTM Practice for Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensations Type) for Exposure of Nonmetallic Materials, ASTM G53-95

IEC Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source, IEC 60707

ISO 3452 Crack Detection