American National Standard

For Insulators

Wet Process Porcelain and Toughened Glass—Suspension Type

Secretariat:

National Electrical Manufacturers Association

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American National Standards Institute, Inc.
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FOREWORD

(This Foreword is not part of American National Standard C29.2-2012)

This standard had its origins in one of a series of Standards issued in 1952 by the Joint Committee on Insulator Standards of the Edison Electric Institute and the National Electrical Manufacturers Association. The original 1952 standard was designated as: EEI-NEMA Standards for Wet-Process Porcelain Insulators (Suspension Type), EEI Publication Number TDJ-52, NEMA Publication Number 140-1952. Subsequent revisions have been developed by the Standards Committee on Insulators for Electric Power Lines, C29.

Suggestions for improvement of this standard will be welcome. They should be sent to:

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For Wet Process Porcelain and Toughened Glass Insulators—Suspension Type

1 SCOPE

This standard covers suspension-type insulators, 4-1/4 inches (108 millimeters) in diameter and larger, made of wet-process porcelain or of toughened glass and used in the transmission and distribution of electrical energy.

2 REFERENCED AMERICAN NATIONAL STANDARDS

This standard is intended to be used in conjunction with the following American National Standards. When the referenced standards are superseded by a revision approved by the American National Standards Institute Inc., the revision shall apply.

ANSI C29.1-1988 (R2012), Test Methods of Electrical Power Insulators
ANSI Z55.1-1967 (R1973), Gray Finishes for Industrial Apparatus and Equipment
ANSI/IEEE/268-1982, Metric Practice
ASTM A153-82, Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM C151-84, Test Method for Autoclave Expansion of Portland Cement

3 DEFINITIONS


4 GENERAL

4.1 Insulators shall conform in all respects to the requirements of this standard. The text and figures supplement each other and shall be considered part of this standard.

4.2 Manufacturer’s drawings, if furnished, shall show the outline of the insulators, together with all pertinent dimensions. Any variations in these dimensions due to manufacturing tolerances shall be indicated.

5 MATERIAL

5.1 Insulator Shells

The insulator shells shall be made of wet-process porcelain or toughened glass. Shells shall be sound and free from defects that might adversely affect the insulators.

5.2 Shell Surface

The surface of the shells exposed after the assembly, which shall be glazed for porcelain insulators, shall be relatively smooth and free of imperfections.

Color is not part of this standard. If gray is required, it shall be in accordance with ANSI Z55.1, and shall conform to Munsell notation 5BG 7.0/0.4 with the following tolerances: