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Draft Indian Standard

**COMPOSITE HOLLOW INSULATORS –PRESSURIZED AND
UNPRESSURIZED INSULATOR FOR USE IN ELECTRICAL EQUIPMENT
WITH RATED VOLTAGE GREATER THAN 1 000 V – DEFINITIONS, TEST
METHODS, ACCEPTANCE CRITERIA AND DESIGN RECOMMENDATIONS**

Last date of receipt of comments is : 12 November 2021

Electrical Insulators and Accessories Sectional Committee, ETD 06

NATIONAL FOREWORD

(Formal clauses to be added later)

This Indian Standard is identical with IEC 61462-2007 ‘Composite hollow insulators – Pressurized and unpressurized insulators for use in electrical equipment with rated voltage greater than 1 000 V – Definitions, test methods, acceptance criteria and design recommendations’ issued by the International Electrotechnical Commission (IEC).

The text of the IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to the following International Standards for which Indian Standards also exist. The corresponding Indian Standards, and documents under print which are to be substituted in their places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60060-1 High-voltage test techniques – Part 1: General definitions and test requirements	IS 2071 (Part 1) : 2016 High-voltage test techniques – Part 1 General definitions and test requirements (<i>third revision</i>)	Identical with IEC 60060-1: 2010

IEC 60168 Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1 000 V	IS/IEC 60168 :2000 Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1 000 v	Identical with IEC 60168:2000
IEC 62155 Hollow pressurized and unpressurized ceramic and glass insulators for use in electrical equipment with rated voltages greater than 1 000 V	IS/IEC 62155 : 2003 Hollow pressurized and unpressurized ceramic and glass insulators for use in electrical equipment with rated voltages greater than 1 000 v	Identical with IEC 62155:2003

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
IEC 60068-2-17	Basic environmental testing procedures – Part 2: Tests – Test Q: Sealing
IEC 62217	Polymeric insulators for indoor and outdoor use with a nominal voltage >1 000 V General definitions, test methods and acceptance criteria
ISO 1101	Geometrical Product Specifications (GPS) – Geometrical tolerancing – Tolerancing of form, orientation, location and run out
ISO 3452	Non-destructive testing – Penetrant inspection – General principles

Only English language text has been retained while adopting it in this Indian Standard, and as such the page numbers given here are not the same as in the International Standard.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2: 1960 ‘Rules for rounding off numerical values (revised)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Note – The technical content of the document is not available on website. For details, please refer the corresponding **IEC 61462:2007** or kindly contact:

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